| TAB | DESCRIPTION | ACTION |
|-----|---|------------------|
| Α | REVIEW OF NCTQ OUTCOMES AND DISCUSSION ON STANDARDS FOR TEACHER QUALITY | Information Item |

SUBJECT

Review of NCTQ Outcomes and Discussion on Standards for Teacher Quality

APPLICABLE STATUTE, RULE, OR POLICY

Section 33-101, Idaho Code Section 33-114, Idaho Code Section 33-1207A, Idaho Code IDAPA 08.02.02.015, Subsections 01, 02 and 03 IDAPA 08.02.02.021 State Board Policy IV.D

BACKGROUND

In February of 2024, Superintendent Critchfield had the opportunity to attend a meeting of the Idaho Association for Colleges of Teacher Education (IACTE). At the conclusion of that meeting it was determined that a work session should be brought forward to the Board at a later date for the purpose of opening a dialogue about teacher quality and the impact of educator preparation programs across a K-20 system.

The State Board of Education's mission is to "drive improvement of the K-20 education system for the citizens of Idaho, focusing on quality, results, and accountability." To drive this mission, the Board's strategic plan identifies several areas of focus, including K-3 literacy and 6-8 mathematics. The Board's strategic Plan, adopted in February of 2024, is included as Attachment 5 for reference. Importantly, the Board's goals and initiatives are aligned with Governor Little's Education Initiatives, which include literacy, teacher recruitment and retention, and workforce development. The governor's initiatives can be found here: https://gov.idaho.gov/education/

In support of this work, the Board tasks OSBE staff with producing annual reports, facilitating broad workgroups, and launching a variety of programs and initiatives aligned with its goals. Reports, such as the Educator Pipeline Report, seek to provide relevant and timely data to help the Board identify significant areas of need. Workgroups, such as the Middle Grades Math Workgroup and a Literacy Workgroup bring together a broad group of stakeholders for the purpose of producing expert-informed recommendations. Initiatives, such as the educator registered apprenticeship program, which seeks to open new pathways for recruitment into the education profession, and the educator mentorship and professional development platform, which seeks to provide quality mentoring for new educators, are ways in which the Board is taking action on its goals.

Section 33-101, Idaho Code tasks the Board with the general "supervision, governance, and control of all state educational institutions". Section 33-114, Idaho Code tasks the Board with supervision and control of the certification of professional education personnel. The Board shall approve the program of education of such personnel in all higher institutions, both public and private. More

specifically, Section 33-1207A, Idaho Code tasks the Board with the review of teacher education programs. The direct review and supervision of educator preparation programs provides an additional method for the Board to ensure the quality of higher education educator preparation programs in Idaho while also meeting K-12 workforce needs.

DISCUSSION

While the discussion began around the National Council of Teacher Quality (NCTQ) Reading Foundations Report, the impact of teacher quality is far reaching. Teacher quality impacts not only direct academic outcomes for public K-12 students, such as literacy acquisition and math achievement, but also impacts the academic achievement of subgroups, such as students receiving special education services, or English language learners. Teacher quality is also related to important systemwide factors such as teacher retention, classroom management, and parent engagement. A work session discussion around this broad topic will help to focus the Board's proposed actions and plans.

Katie Shoup, OSBE Educator Effectiveness Program Manager, will provide a brief overview of the NCTQ outcomes as a starting point for the conversation. The Deans of Idaho's public educator preparation programs have been invited to engage in discussion with the Board on the topic of the NCTQ outcomes and teacher quality in general. This includes:

- Dr. James Satterfield, Dean, Boise State University
- Esther Ntuli, Interim Dean, Idaho State University
- Dr. Royal Toy, Director, Lewis-Clark State College
- Dr. Brooke Blevins, Dean, University of Idaho

Finally, the Board has requested time be set aside for a Board-only discussion regarding expectations and potential next steps as we work to drive improvement across the K-20 education system.

The Educator Pipeline Report and the Middle Grade Math Workgroup Recommendations are both included as attachments as these reports were recently presented to the Board, and may provide additional relevant information for the discussion.

IMPACT

This work session may result in additional tasks, initiatives, or areas of focus.

ATTACHMENTS

Attachment 1 - Review of NCTQ Outcomes - Presentation Slides

Attachment 2 – National Council on Teacher Quality. (2023). "Teacher Prep Review: Strengthening Elementary Reading Instruction." NCTQ. https://www.nctq.org/dmsView/Teacher Prep Review Strengthening Elementary Reading Instruction

- Attachment 3 –Educator Pipeline Report 2023 (as presented to Board in December 2023)– For Reference
- Attachment 4 Middle Grades Math Workgroup (as presented to Board in April 2024)– For Reference
- Attachment 5 State Board of Education K-20 Strategic Plan For Reference

BOARD ACTION

This item is for informational purposes only.

Educator Preparation Work Session

August 21, 2024





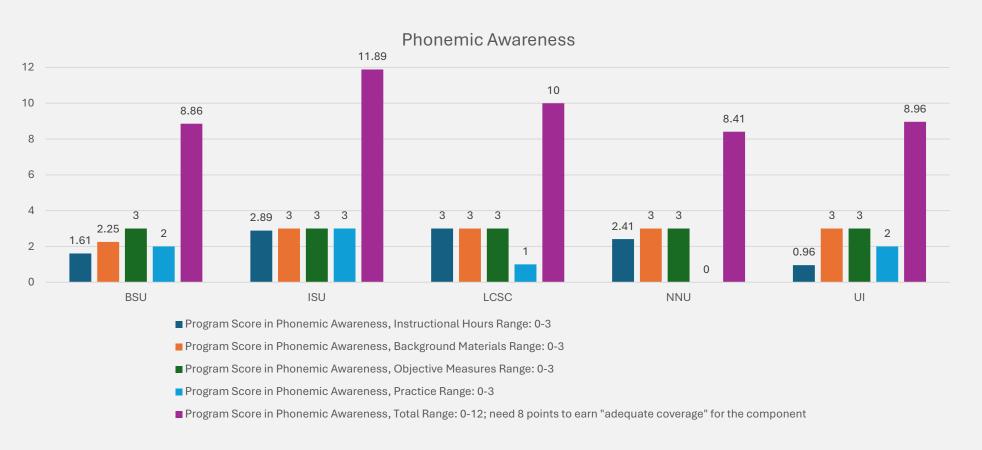
NCTQ Grades

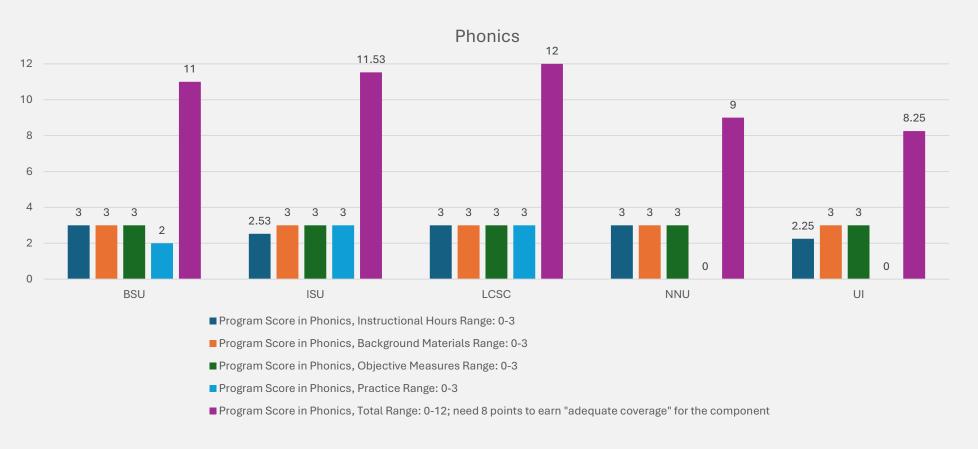
| | BSU | BYU-I | ISU | LCSC | NNU | UI |
|---|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Enrollment: Program Diversity (2021) | <u>C</u> | <u>B</u> | <u>A+</u> | <u>D</u> | <u>C</u> | <u>A+</u> |
| Knowledge: Reading Foundations (2023) | <u>c</u> | Can't be determined | <u>A</u> | <u>A</u> | <u>A</u> | <u>B</u> |
| Knowledge: Elementary Mathematics (2022) | <u>A+</u> | <u>D</u> | <u>B</u> | <u>B</u> | <u>B</u> | <u>B</u> |
| Knowledge: Building Content Knowledge (Social Studies and Science) (2023) | See analysis | See analysis | See analysis | See analysis | See analysis | See analysis |
| Practice: Clinical Practice | Analysis coming 2026 | Analysis coming 2026 | Analysis coming 2026 | Analysis coming 2026 | Analysis coming 2026 | Analysis coming 2026 |
| Practice: Classroom Management (New Framework In Progress) | Analysis coming 2027 | Analysis coming 2027 |

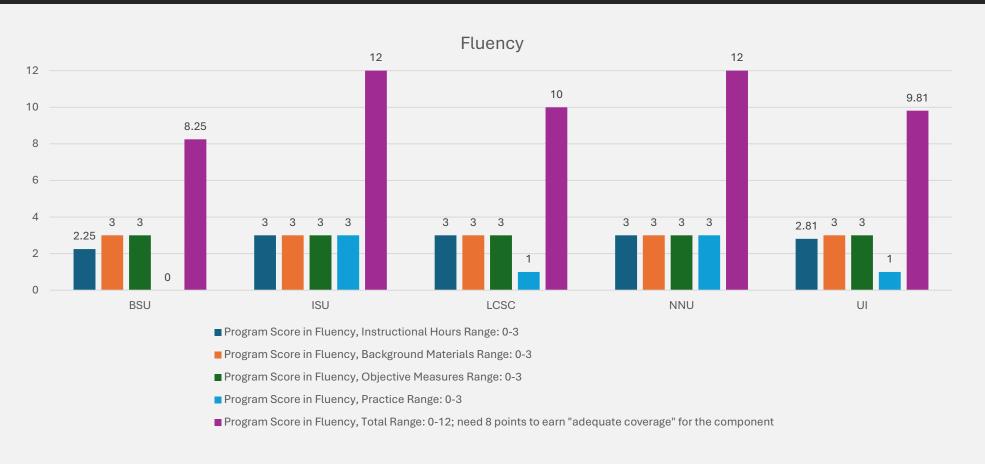


NCTQ Grades

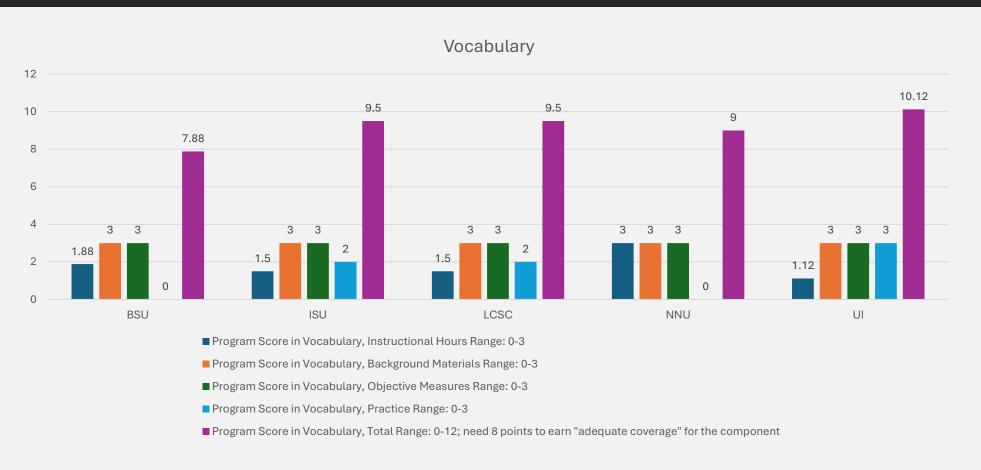
| | BSU | BYU-I | ISU | LCSC | NNU | UI |
|-----------------------------------|-----|-------|---------|------|-----|----|
| Admissions (2021) | В | В | С | В | A | А |
| Classroom Management (2020) | A | В | No data | F | В | В |
| Clinical Practice (2020) | С | С | С | С | С | D |
| Early Reading Instruction (2020) | A | В | В | A+ | Α | F |



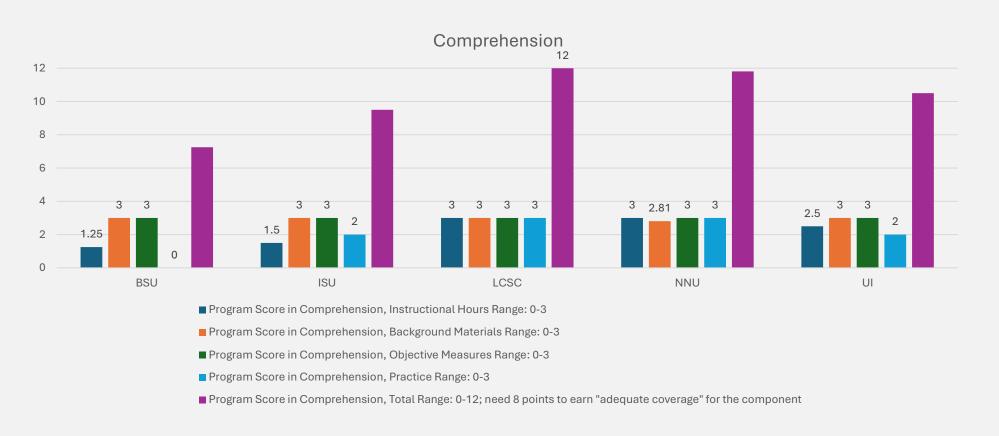










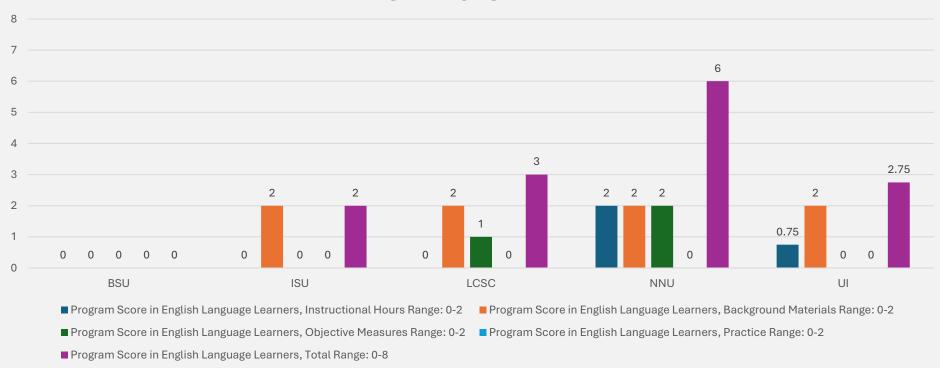






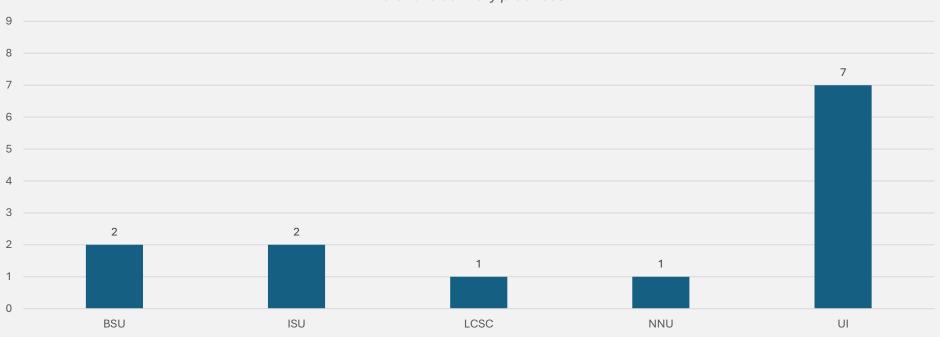


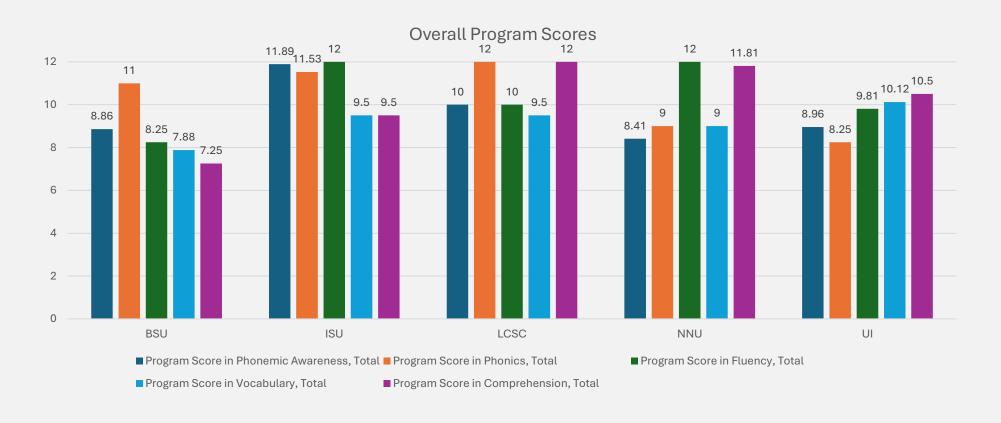
English Language Learners





Program Count of Contrary Practices Any program with 4 or more practices loses a letter grade. Total of 9 contrary practices.





EPP Overview

Educator Preparation Provider (EPP) Overview:

- 1. Boise State University
 - Dr. James Satterfield
- 2. Idaho State University
 - Dr. Esther Ntuli
- 3. Lewis Clark State College
 - Dr. Royal Toy
- 4. University of Idaho
 - Dr. Brooke Blevins

Work Session Topics

Work Session Topics:

- 1. Educator Preparation;
- 2. Educator Preparation Provider Accountability;
- 3. Special Education.

End of Presentation



TEACHER PREP REVIEW

Strengthening Elementary Reading Instruction

June 2023



CONTENTS

| Int | roduction | 3 |
|-----|--|----|
| Na | tional findings | 9 |
| • | Finding 1: Only 25% of programs adequately address all five core components of reading instruction | |
| • | Finding 2: Phonemic awareness receives the least attention across programs | |
| • | Finding 3: Nearly one-third of programs do not provide any practice opportunities connected to the core components of reading | |
| • | Finding 4: With strong state policies, effective implementation, and accountability, states can improve the quality of teacher preparation in reading | |
| • | Finding 5: Programs provide little preparation in teaching reading to English learners, struggling readers, and speakers of English language varieties | |
| • | Finding 6: Distribution of program grades in 2023 | |
| Re | commendations | 37 |
| • | Actions for teacher preparation programs | |
| • | Actions for state leaders | |
| • | Actions for school districts | |
| • | Actions for advocates, teachers, and parents | |
| Pro | omising practices | 46 |
| Ac | knowledgments | 53 |
| En | dnotes | 54 |
| Ap | pendices | 59 |
| • | Appendix A: Changes to the Reading Foundations standard | |
| • | Appendix B: Methodology in brief | |
| • | Appendix C: Content contrary to research-based practices | |
| • | Appendix D: Instructional hours by component | |
| • | Appendix E: Institutions that refused to participate | |
| • | Appendix F: All program scores in Reading Foundations | |

RECOMMENDED CITATION:

Ellis, C., Holston, S., Drake, G., Putman, H., Swisher, A., & Peske, H. (2023). *Teacher Prep Review: Strengthening Elementary Reading Instruction*. Washington, DC: National Council on Teacher Quality.

INTRODUCTION

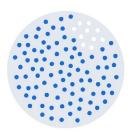
A clear solution to our nation's literacy crisis

All children deserve to learn to read, and all teachers deserve the preparation and support that will allow them to help their students achieve this goal. Yet more than one-third of fourth graders—1.3 million children¹ in the U.S.—cannot read at a basic level.² Not learning how to read has lifelong consequences. Students who are not reading at grade level by the time they reach fourth grade are four times more likely to drop out of high school,³ which in turn leads to additional challenges for them as adults: lower lifetime earnings;⁴ higher rates of unemployment;⁵ a higher likelihood of entering the criminal justice system;⁶ and a greater chance of needing to access government benefits to meet their household's basic needs, such as food and health care.⁵ Even more alarming, the rate of students who cannot read proficiently by fourth grade climbs even higher for students of color, those with learning differences, and those who grow up in low-income households, perpetuating disparate life outcomes.³ This dismal data has nothing to do with the students and families, and everything to do with inequities in access to effective literacy instruction.

The status quo is far from inevitable. In fact, we know the solution to this reading crisis, but we are not using the solution at scale. More than 50 years of research compiled by the National Institutes of Health, and continued through further research, provides a clear picture of how skilled reading develops and of effective literacy instruction. These strategies and methods—collectively called scientifically based reading instruction, which is grounded in the science of reading—could dramatically reduce the rate of reading failure. Past estimates have found that while 3 in 10 children struggle to read (and that rate has grown higher since the pandemic), research indicates that more than 90% of all students could learn to read if they had access to teachers who employed scientifically based reading instruction.



Currently, **just over 60%** of children are learning to read by 4th grade.



With effective reading instruction, we could take that to more than 90%.

This means that nearly 1,000,000 additional children would reach fourth grade able to read each year.

Unfortunately, too many teachers are not trained in scientifically based reading instruction during their teacher preparation programs, so they unknowingly enter the classroom well intentioned but inadequately prepared to teach kids to read. In fact, a recent survey conducted by Education Week found most elementary special education and K-2 teachers (72%) say they use literacy instructional methods that incorporate practices debunked by cognitive scientists decades ago. ¹⁰ Researchers have discovered that these strategies that are contrary to research-based practices—like teaching kids to look at the picture to help guess a word, or skipping words they do not know—not only are unhelpful, ¹¹ but also take up valuable instructional time that should be dedicated to research-based reading instruction. ¹²

Giving teachers the knowledge and skills they need to teach reading effectively is a fundamental step for remedying this untenable situation, improving life outcomes for all children, and reversing historical patterns of inequity. Through intentional program design, teacher preparation programs have a pivotal role to play in ensuring all children receive the high-quality reading instruction they deserve. And state education leaders—who control teacher preparation program requirements, regulations, and approvals—can also enact policies to transform reading instruction for generations of students.

The purpose of the *Teacher Prep Review* is to guarantee teachers have expertise in reading instruction (as well as other essential areas NCTQ assesses)¹³ before being trusted to teach children to read. By regularly reviewing the reading coursework provided by nearly 700 elementary teacher preparation programs, the National Council on Teacher Quality seeks basic evidence that programs are using what is empirically known about how to teach reading—so every child can learn to read.

What is scientifically based reading instruction, and how does NCTQ measure it in teacher preparation?

Scientifically based reading instruction is grounded in the research on how students learn to read. It builds off the <u>2000 National Reading Panel</u> report, which emphasizes the importance of alphabetics (phonemic awareness and phonics), fluency, vocabulary, and comprehension. A <u>2016 report by the Institute of Education Sciences</u> (updated in 2019) examined the research since the National Reading Panel's release, confirming and extending the findings of the 2000 report and offering teachers actionable, evidence-based recommendations to teach reading.¹⁴

Elementary teachers need to understand and know how to explicitly and systematically teach the five components of scientifically based reading instruction, including: (1) developing students' awareness of the sounds made by spoken words (phonemic awareness); (2) systematically mapping those speech sounds onto letters and letter combinations (phonics);¹⁵ (3) providing students extended practice reading words with learned lettersound combinations so they learn to read words with automaticity, without a lot of effort, at a good rate, and with expression (fluency)—allowing them to devote their mental energy to the meaning of the text; (4) building word knowledge using student-friendly definitions and engaging practice opportunities (vocabulary),¹⁶ a skill closely associated with the final component; (5) ensuring students have the skills, knowledge, and strategies to understand what is being read to them and eventually what they will read themselves (comprehension).

Process of NCTQ's evaluation: Five core components and instructional approaches

The 2023 *Teacher Prep Review* includes 693 programs in 50 states and the District of Columbia. This sample was culled from the full set of 1,146 programs eligible to be rated, including programs in all public institutions that actively produce elementary teachers and all private institutions with an annual production of at least 10 elementary teachers. NCTQ requested relevant materials from all programs, but those that did not provide sufficient documentation could not be rated and are not included in the final sample. While programs preparing early childhood or special education teachers should also focus on scientifically based reading instruction, this review focused on those preparing elementary teachers.

To assess if aspiring teachers are likely to acquire knowledge of these five components as part of their preparation program, NCTQ first identifies the required courses relating to reading instruction for each elementary program, a list each program is asked to verify. NCTQ then requests syllabi and related course material for all elementary reading courses. A team of reading experts¹⁷ evaluates the course materials across four instructional approaches—including the planned lecture topics (as a measure of instructional time), assigned readings, assignments and assessments, and opportunities for practice—looking for clear evidence teacher candidates are accountable for learning each component. For more information about the topics that count toward each component for this analysis, see page 21 of the <u>Technical Report</u>.

NCTQ looks for clear evidence that aspiring teachers learn about each of the five core components of scientifically based reading instruction through four different instructional approaches.

Core Components Phonemic Awareness

The ability to focus on and manipulate the individual phonemes in spoken words

Phonics

The relationship between the sound of spoken words and the individual letters or groups of letters representing those sounds in written words

Fluency

The ability to read a text accurately and quickly while using phrasing and emphasis to make what is read sound like spoken language

Vocabulary

Knowledge about the meanings, uses, and pronunciation of words

Comprehension

Constructing meaning that is reasonable and accurate by connecting what has been read to what the reader already knows and thinking about all of this information

Instructional Approaches



Instructional Hours

Objective Measures of Knowledge Includes tests, quizzes, and written graded assignments

Practice/Application

Practice providing instruction, in a simulated or real classroom setting, or practice giving an assessment

Background Materials

Textbooks, articles, videos, or other materials identified in a "required reading" section

ATTACHMENT 2

Every program is given the opportunity to review its preliminary analysis and provide a response and additional materials for consideration before publication. This includes a confidential review of their preliminary score (with detailed information about course-level findings) with the option to submit additional evidence for analysis. For this edition of the *Teacher Prep Review*, approximately 17% of the sample chose to provide further evidence, a cooperative process that led to scoring updates for a number of those programs.¹⁸

For each program, NCTQ awards points to each of the five components based on the sum of the individual course findings. Programs can earn up to three points for each of the four instructional approaches (background materials, instructional time, objective measures of knowledge, and practice) within each component, for a total of 12 possible points. Programs are deemed to have provided adequate coverage of a component when they obtain at least eight of the 12 points. Grades are based on the number of components a program adequately addresses. Programs lose a letter grade in instances where they teach candidates at least four practices that run contrary to the research. For more information about the scoring process, see Appendix B.

In addition to the analysis of the five core components, NCTQ also provides feedback on whether programs provide instruction on how to support struggling readers, English learners, and students who speak language varieties other than mainstream English, although this feedback does not affect a program's grade.

See the Methodology in brief (Appendix B) for more information. A more detailed methodology and the rubrics NCTQ uses to evaluate programs under the Reading Foundation standard are fully detailed in the <u>Reading Foundations Technical Report</u>. The <u>Reading Foundations Technical Report</u> provides more information about the scoring rubric, details on how the instructional approach targets were set, the sample of programs, information about contrary practices, and specifics on how the analysis was completed.

For a brief overview of the analysis process, watch this video.

Changes to the 2023 Review

After a multiyear revision process—including engagement with an expert advisory panel, an open comment period, and review by a technical advisory group¹⁹—NCTQ made several changes from the previous 2020 *Review*, including:

- Increased expectations for the minimum amount of instructional time programs should devote to each of the five core components.
- Reviewed program material for the presence of reading practices contrary to the research.
- Evaluated the opportunities programs provide for candidates to practice instruction in each component.
- Added analysis on the extent to which programs prepare aspiring teachers to teach
 English learners, struggling readers, and students who speak language varieties other
 than mainstream English language.

For more details on these changes, see Appendix A.

NATIONAL FINDINGS

1

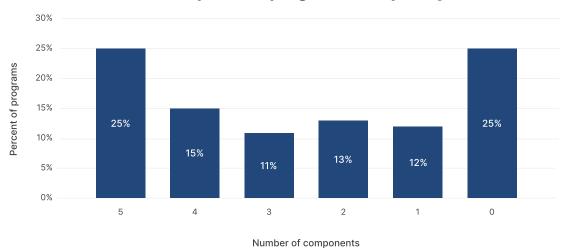
Only 25% of programs adequately address all five core components of reading instruction

To be effective, elementary teachers need to understand and know how to teach all five components of scientifically based reading instruction. Because of the interconnectivity of these components, a teacher who lacks an understanding of one will be less effective teaching the others, and students who miss instruction on one component may struggle to become fully literate.

Based on a review of the four instructional approaches—instructional hours, ²⁰ objective measures of knowledge, practice, and background materials—dedicated to each of the five components, NCTQ found 25% of teacher preparation programs fully address all five components of scientifically based reading instruction. More concerning is that another 25% of programs do not adequately address any of the five components.

Figure 1.

Number of components programs adequately address



Note: n = 693. Percentages are rounded and may not add to 100%.

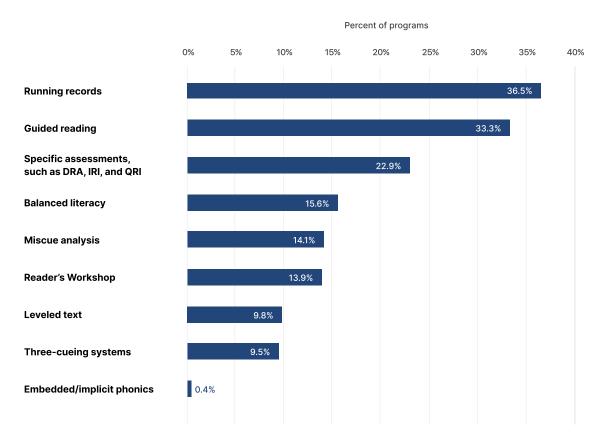
What does it mean to adequately address a component?

A program is determined to adequately address a component when it earns sufficient points (eight out of 12, or 67% of possible points) for evidence of background materials, instructional hours, practice/application, and objective measures of knowledge. For more on how this is scored, see Appendix B.

Content contrary to research-based practices

Research is clear on how skilled reading develops and on the practices most likely to result in all children becoming skilled readers, as well as the instructional methods their teachers should not be using—methods that run counter to the research. Forty percent of programs are still teaching multiple practices contrary to long-standing research, which can undermine the effect of scientifically based reading instruction. This report refers to these practices as content contrary to research-based practices, or "contrary practices."

Percent of programs teaching content contrary to research-based practices



Note: n = 693. View data online to see which programs teach which practices.

See how your state compares.

View this data online to filter by state or explore individual program data.

Why are these practices so concerning?

When programs teach practices not supported by research alongside practices that are aligned, it legitimizes these ineffective methods, risks confusing aspiring teachers, and may lead new teachers to implement debunked practices that hinder many students from becoming proficient readers. No medical school would ever teach aspiring doctors using practices known to be ineffective, yet these practices remain all too common when preparing elementary teachers to teach reading.

Misaligned assessment strategies make up several practices that top the list of those still being taught that run contrary to research. For example, **running records** is an assessment in which a teacher observes a student's oral reading of a passage and records the number of errors to calculate the accuracy level.²¹ Intended in part as a formative assessment, running records are used to identify a student's "reading level," to determine appropriate student groupings, and to monitor student growth.²² Though widely popular, studies on running records show these assessments produce inconsistent results based on both teachers' accuracy in scoring²³ and students' accuracy in reading different texts. Further, running records assessments may include the use of miscue analysis to determine why students make errors, which is often rooted in three-cueing models of understanding reading, in which students are invited to use clues such as pictures and context to guess a word with which they are unfamiliar.²⁴

A description of these practices and the evidence demonstrating that they run contrary to the research can be found in <u>Appendix C</u>.

Dive Deeper: Which instructional materials are aligned with scientifically based reading instruction?

See how well programs' instructional materials—such as textbooks, articles, and videos—align to scientifically based reading instruction and find high-quality exemplars in NCTQ's Reading Instructional Materials database.

Search the database.

Exemplary programs

Despite the challenges that exist in the current landscape, there are programs that serve as great examples from which others can learn. Among the 173 programs addressing all five components are 48 exemplary programs that comfortably exceed the targets of the Review and do so without teaching candidates any methods that run contrary to research.

These programs best provide candidates with the foundation needed to effectively teach reading from day one.

| State | School | Program |
|----------------|---|---------------|
| Alabama | Alabama A&M University | Graduate |
| Alabama | Samford University | Undergraduate |
| Alabama | Samford University | Graduate |
| Arkansas | University of Arkansas at Monticello | Undergraduate |
| Colorado | Fort Lewis College | Undergraduate |
| Colorado | University of Colorado Boulder | Undergraduate |
| Colorado | University of Colorado Denver | Undergraduate |
| Colorado | University of Northern Colorado | Graduate |
| Colorado | Western Colorado University | Undergraduate |
| Georgia | Georgia College and State University | Undergraduate |
| Illinois | Olivet Nazarene University | Undergraduate |
| Indiana | Marian University Indianapolis | Undergraduate |
| Kansas | Wichita State University | Undergraduate |
| Louisiana | Louisiana State University - Alexandria | Undergraduate |
| Louisiana | Southern University and A&M College | Undergraduate |
| Louisiana | University of Louisiana at Monroe | Undergraduate |
| Louisiana | University of New Orleans | Graduate |
| Massachusetts | Gordon College | Undergraduate |
| Michigan | Ferris State University | Undergraduate |
| Mississippi | Jackson State University | Undergraduate |
| Mississippi | Mississippi State University | Undergraduate |
| Mississippi | University of Southern Mississippi | Undergraduate |
| New Mexico | Western New Mexico University | Undergraduate |
| New Mexico | Western New Mexico University | Graduate |
| North Carolina | East Carolina University | Undergraduate |
| North Carolina | Lenoir-Rhyne University | Undergraduate |
| North Carolina | University of North Carolina Asheville | Undergraduate |
| North Carolina | University of North Carolina at Chapel Hill | Graduate |
| North Carolina | Western Carolina University | Undergraduate |
| | | |

| State | School | Program |
|--------------|---|---------------|
| Ohio | Mount St. Joseph University | Undergraduate |
| Ohio | University of Dayton | Undergraduate |
| Ohio | University of Findlay | Undergraduate |
| Ohio | University of Rio Grande | Undergraduate |
| Rhode Island | Rhode Island College | Undergraduate |
| Tennessee | Middle Tennessee State University | Undergraduate |
| Tennessee | Tennessee Wesleyan University | Undergraduate |
| Texas | Houston Baptist University | Undergraduate |
| Texas | Sul Ross State University | Undergraduate |
| Texas | Texas A&M University - Texarkana | Undergraduate |
| Utah | Southern Utah University | Undergraduate |
| Utah | Utah State University | Undergraduate |
| Utah | Utah Valley University | Undergraduate |
| Virginia | Christopher Newport University | Graduate |
| Virginia | James Madison University | Undergraduate |
| Virginia | Regent University | Undergraduate |
| Virginia | University of Virginia | Graduate |
| Virginia | Virginia Polytechnic Institute and State University | Graduate |
| Wisconsin | University of Wisconsin - Stevens Point | Undergraduate |

Programs can earn up to 12 points per component (e.g., phonics, phonemic awareness, fluency, vocabulary, comprehension) and need to earn at least eight points to be deemed to provide adequate coverage. Exemplary programs are those that average at least 10 points across the five components and do not teach any of the nine contrary practices.

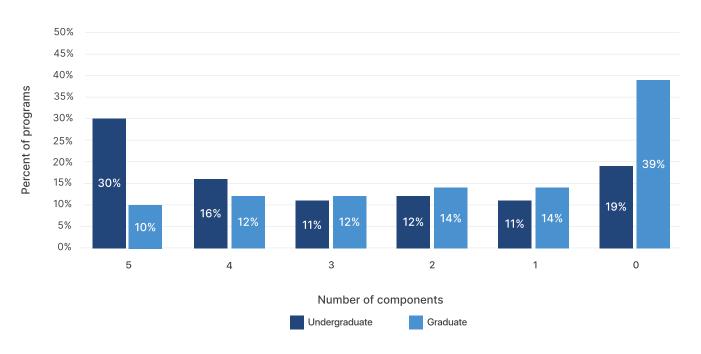
For more details about these exemplary programs and what they do, see the **Promising Practices** section of this report.

Undergraduate vs. Graduate programs

Undergraduate and graduate programs are preparing candidates for the same job: elementary teacher. Yet across all measures, on average, graduate programs provide less comprehensive coverage of the five components. In fact, nearly 40% of graduate programs in the sample were found to adequately address zero components, compared to 19% of undergraduate programs. However, nine graduate programs not only address but exceed the targets for component coverage, showing exemplary preparation in reading is possible in graduate programs.

Figure 3.

Components adequately addressed by undergraduate programs vs. graduate programs



Note: Undergraduate programs n = 513. Graduate programs n = 180. Percentages are rounded and may not add to 100%.

2

Phonemic awareness receives the least attention across programs

To become skilled readers, children need to develop the ability to identify and manipulate the individual sounds within spoken words and link those sounds to the written word. This fundamental reading skill is known as **phonemic awareness**. Strong phonemic awareness skills allow children to isolate, blend, segment, and manipulate phonemes (the smallest units of sound within a language system) in different ways, priming them to develop phonics skills, in which they connect the sounds they *hear* to the letters they *see*. Phonological awareness, which falls within the category of phonemic awareness, is "the ability to recognize words are made up of individual sound units." ²⁵

By connecting phonemes to the printed words (or the "graphemes"), students develop the understanding that speech maps to print (or the "orthographic principle"). The development of this understanding, achieved through phonemic awareness and phonics instruction, is the necessary underpinning of three other essential components of reading: fluency, vocabulary, and comprehension.

Examples of phonemic and phonological awareness skills

| Rhyming | Blending | Substitution |
|--|--|---|
| Teacher: Can you think of a word that rhymes with "cat"? | Teacher: What word do these sounds make - /c/ - /a/ - /t/? | Teacher: What word do I get if I change the /c/ sound in CAT to a /p/? |
| Student: Rat! Hat! | Student: Cat! | Student: Pat! |

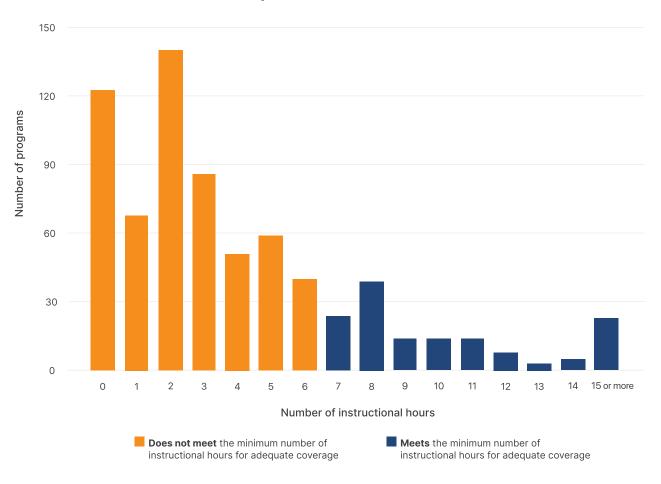
Two out of three teacher preparation programs fail to adequately address phonemic awareness.

Phonemic awareness plays a critical role in developing strong reading skills; therefore, teacher preparation programs need to provide an adequate focus on this foundational skill. In the past decade of the *Teacher Prep Review*, phonemic awareness is consistently the least addressed component.²⁶

Instructional hours dedicated to phonemic awareness

Only 117 of 693 programs (17%) provide aspiring teachers with at least seven instructional hours on phonemic awareness—slightly more than two weeks of course time (courses often meet for about three hours a week). Roughly half of the programs (342) dedicate less than a week's worth of course time (fewer than three instructional hours) to phonemic awareness.

Number of instructional hours programs dedicate to phonemic awareness



The minimum number of instructional hours needed to address the core concepts for each component was determined based on feedback from the Expert Advisory Panel and the results from the Open Comment Survey (see <u>Appendix A</u> for those recommendations).

Details on instructional hours dedicated to phonics, fluency, vocabulary, and comprehension can be found in $\underline{\text{Appendix D}}$.

High-performing programs ensure their courses not only dedicate instructional time and use strong *background materials*, but also assess candidates by requiring them to *demonstrate knowledge* and provide *practice opportunities* on the techniques they learn. For phonemic awareness, 69% of programs adequately assess candidates using objective measures of knowledge (tests, quizzes, and written assessments). Twelve percent of programs require adequate opportunities to practice teaching phonemic awareness.

In addition to multiple hours of instruction on phonemic awareness, this course from **Southern University and A&M College** (Undergraduate, LA) includes assignment and practice opportunities for foundational reading lessons focused on phonemic awareness, fluency, and phonics.

Example assignment and practice opportunities

IRIS Center Early Reading Case Studies

Students will use the STAR Sheets from the IRIS Center Early Reading Case Studies to develop, implement, evaluate, and revise foundational reading activities in phonemic awareness, phonics, and fluency. Students will implement the activities with each other to practice the instructional activities with each other. The instructor and the students will evaluate the instructional practice, and students will revise the activites based on feedback. In addition, students will read, write reports, and present on two IRIS Center Early Reading Case Studies as part of the midterm examination and two case studies as part of the final examination.

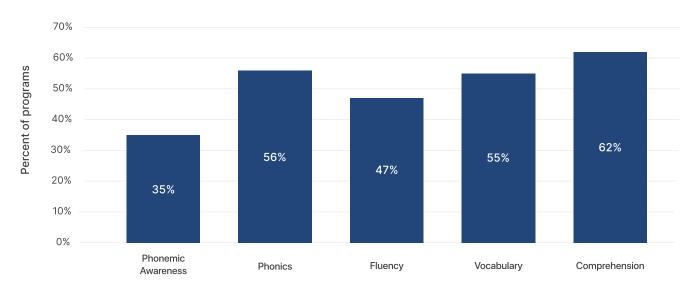
Lesson plans and unit plans

For the midterm examination, students will use high-quality curriculum materials (quality based on evaluations completed by the Louisiana Department of Education (LDOE)), course textbooks, IRIS Center Early Reading Case Study STAR Sheets, Louisiana Literacy resources from the LDOE, and guidance from ReadingRockets.org, etc. to develop a foundational skills reading block that includes phonemic awareness, phonics, and fluency activities that are embedded within lesson plans that utilized the Universal Design for Learning. These activities will be implemented as part of the students' Level 2 Field Experiences and revised based on evaluation of those field experiences. For the final examination, students will expand the skills block lesson plan into a unit plan that includes five days of foundational skills reading block activites for each of the following types of foundational reading instruction: phonemic awareness, phonics, and fluency.

Performance across the five components

Phonemic awareness helps lay the foundation for reading, but all the components are critical to develop strong readers. While phonemic awareness receives the least attention, programs generally perform strongest in comprehension, which helps students understand what they read.

Percent of programs adequately addressing each component of scientifically based reading instruction



Note: n = 693. View this data online to see which programs adequately cover which components.

See how your state compares.

View this data online to filter by state or explore individual program data.

In eight states (Arkansas, Colorado, Florida, Idaho, Louisiana, Mississippi, North Carolina and Utah²⁷), at least 50% of their programs adequately address *all five* components, while in four states with five or more programs in the sample (Kansas, New Jersey, Oregon, and Washington), at least 50% of programs do not adequately address *any* of the five components.

See <u>here</u> for more information about how preparation in reading varies across states.

3

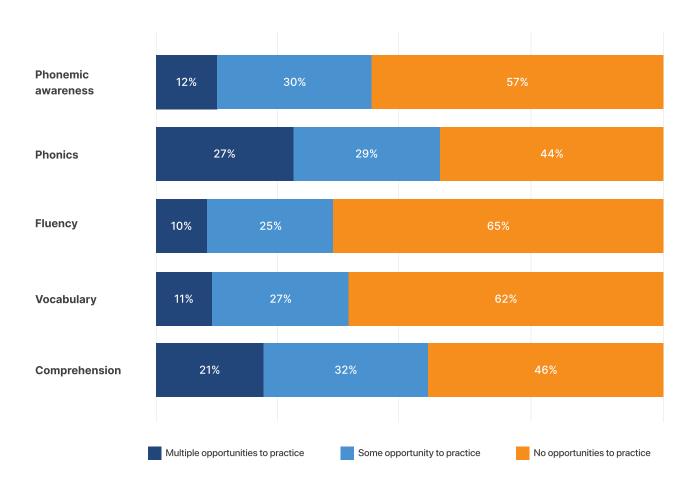
Nearly one-third of programs do not provide any practice opportunities connected to the core components of reading, despite widespread agreement among practitioners and researchers on the importance of practice

It seems intuitive: To get better, you need to practice. Experts agree. In a survey of stakeholders from teacher preparation programs, state education agencies, schools, and districts, ²⁸ 80% of respondents believed preparation programs should require teacher candidates to demonstrate knowledge through both an objective measure of knowledge (e.g., text, quiz, or assignment) *and* application of knowledge (e.g., a practice opportunity). In teacher preparation, practice takes many forms, such as one-on-one tutoring with a student, administering a mock assessment to fellow teacher candidates, or conducting a lesson during a field experience. Regardless of the format, practicing the concepts is essential to preparing new teachers.²⁹

Although there is widespread agreement on the importance of practice, three in 10 (30%) programs do not provide *any* practice opportunities for any of the five components. To provide adequate practice opportunities within a component, programs must provide *more than* one practice opportunity in a component. Often, programs may require candidates to practice teaching a reading lesson, but do not set parameters around the content of that practice lesson (e.g., specifying that it focuses on teaching a phonics skill). As a result, many more programs require *some* practice, but do not earn credit toward the Reading Foundations standard for practice of any component.

Aspiring teachers need multiple opportunities to practice each component, but 30% of programs require no practice opportunities on *any* component.

Figure 6. Opportunities to practice for each component



Note: n = 693. Percentages for each component are rounded and may not add to 100%.

See how your state compares.

View this data online to filter by state or explore individual program data.

Some programs, like Lenoir-Rhyne University (Undergraduate, NC), lead the way by dedicating a single course to practicing specific skills related to the components that candidates learned in reading content courses. Over the duration of the course, candidates have diverse opportunities for applied practice—from administering phonics and spelling inventories to planning and demonstrating lessons in vocabulary and comprehension. These varied opportunities are essential to providing teacher candidates with the practical experience they need to enter the classroom prepared.

In a course at **Lenoir-Rhyne University** (Undergraduate, NC), candidates are required to practice instructional activities and assessments learned within their reading courses during tutoring (e.g., administering assessments such as DIBELS or PAST).

Sample practice opportunity connected to components

| Week 3 | 1/25 | Tutoring begins: Middle-of-the- Year Assessment (MOY) (DIBELS: Letter Naming Fluency, Phoneme Segmentation Fluency, Word Reading Fluency, & Nonsense Word Fluency) | |
|--------|------|--|--------------------------|
| | 1/27 | Tutoring: Assessment (PAST, Untimed Letter Recognition of Upper and Lowercase, High-Frequency Words) | |
| Week 4 | 2/01 | Tutoring: Assessment (Oral Reading Fluency) | Weekly Tutoring Plans |
| | 2/03 | Tutoring: Letter Recognition, Phonemic Awareness, Letter-Sound Correspondences, Phonics (Reading & Spelling Decodable Words/ Sentences) & High-Frequency Words | |
| Week 5 | 2/08 | Tutoring: Letter Recognition, Phonemic Awareness, Letter-Sound Correspondences, Phonics, & High-Frequency Words | Weekly Tutoring Plans |

Field experiences (or practice teaching opportunities in a real school setting) are often designed to coincide with a course, but do not prescribe practice opportunities connected to specific components of reading. For example, students may spend hours in the field, but the practice often varies depending on what the cooperating teacher is covering, rather than being tied to specific course concepts and reading components. For example, a student teacher may never be required to administer a reading assessment of students' comprehension or demonstrate how they would support a multilingual student to gain phonemic awareness in English.

This example illustrates two common issues with the practice that does exist in teacher prep: first, it's not tied to specific components of reading, and second, it asks candidates to observe students rather than to practice conducting instruction themselves. Field experiences that are not clearly tied to a specific component do not receive any credit under the standard because they do not guarantee that teacher candidates practice any specific skills related to reading instruction; the skills candidates practice may vary based on the cooperating teacher or the day they happen to be in the classroom. Observations during field experiences, although not necessarily bad in their own right, do not receive credit as a practice opportunity because they do not indicate that the candidates are practicing any skills related to reading instruction, merely that they are watching another teacher in action.

Sample practice opportunity not connected to components

Across the semester, you will complete 2 **Child Observation Reports** in which you will *document* and *analyze* your observations of a child's language development. **Child Observations** are intended to provide you an opportunity to apply your understanding of language and literacy development for individual children. Please note as you describe your analysis of children's language and literacy development, you must do so through a **growth mindset**.

4

With strong state policies, effective implementation, and accountability, states can improve the quality of teacher preparation in reading

While individual preparation programs can improve the outcomes for their enrolled candidates, states hold the power to institute improvements to reading instruction and teacher preparation on a statewide scale. Several states have already taken this step, showing what is possible. Mississippi and Colorado stand out for high scores for their teacher prep programs and minimal existence of practices contrary to scientifically based reading instruction.

Arkansas and Louisiana also showed strong performances in reading within the *Teacher Prep Review*. In both states, nearly 70% of their programs cover all five core components, earning an A. Three-quarters of programs in both states dedicate more than two hours to struggling readers, surpassing the national average. Arkansas programs also stand out for their dedication to phonemic awareness, with programs dedicating on average 16 hours to this component, whereas in many other states, this component is covered the least.

Of the top 10 states based on the average number of reading components addressed, Arizona, Colorado, Mississippi, New Mexico, Utah and Virginia deserve praise for having one or less contrary practices on average across all reviewed programs in their state. In contrast, in four states (Connecticut, Iowa, New York, and South Carolina), programs vary in their attention to the core components and also teach nearly three contrary practices on average.³⁰

The strong results by **Mississippi** and **Colorado** should come as no surprise, given the investments and attention they have given in recent years to promoting scientifically based reading instruction, including developing robust and specific teacher preparation standards and accountability, requiring a strong reading licensure test addressing all five components, and offering supports for teacher preparation programs to make the transition to scientifically based reading preparation.

Mississippi's dedication to teacher preparation

The case of Mississippi's systematic reading transformation is well documented.³¹ Often overlooked, however, is the state's inclusion of teacher preparation early on in its efforts. As part of landmark <u>legislation</u>³² in 2013, the state provided professional development training via Language Essentials for Teachers of Reading and Spelling (LETRS) to elementary teachers and leaders, as well as included faculty from institutes of higher education on a voluntary basis, to begin to create a common language across the entire education system.

While Mississippi had long required multiple reading courses in elementary teacher preparation programs, there was misalignment between the content taught in the course and the core components of scientifically based reading instruction. In 2015, Mississippi conducted an in-depth review of 15 prep programs, in partnership with Barksdale Reading Institute; these programs voluntarily participated to assess their alignment to scientifically based reading instruction and provide a better understanding of programs' strengths and areas in need of growth related to scientifically based reading instruction.³³

Based on this study, the state set up strong accountability *and* support mechanisms to help bring programs into alignment. In 2016, the state began requiring the Foundations of Reading test for all elementary teachers to earn a license, which also provided a common indicator across all programs of whether teacher candidates were obtaining the knowledge and skills they need to teach scientifically based reading instruction. Later, the state factored this data into more frequent program reviews, including annual reports on the percentage of candidates who passed the reading test by number of attempts. Beginning in 2018, the state, with philanthropic support, provided intense professional learning and support to faculty in prep programs. This support included on-site training modules, texts, and other instructional videos; classroom instruction; one-on-one mentoring; and seminars. Most importantly, the state department of education studied the impact of the professional learning partnership in order to understand continued areas of needed support and to celebrate successes.

To support sustainability, Mississippi redesigned educator prep program guidelines and program approval requirements to prescribe the 15 credit hours dedicated to literacy, and required the two courses—Early Literacy 1 and Early Literacy 2—to align with syllabi from the Mississippi Higher Education Literacy Council matrix, which also includes an emphasis on dyslexia and English language learners. Additionally, a third course, Fundamentals of Reading in the Upper Elementary Grades, is also required.

Mississippi's status as a top state in the NCTQ review is evidence that this dedication to teacher preparation is achieving results for students: Between 2013 and 2019, the state saw fourth grade NAEP scores rise dramatically, including for historically marginalized groups such as Black and Hispanic students. Even after the pandemic, Mississippi maintained its gains in reading in 2022, while many other states declined.³⁴ By partnering with teacher prep, setting accountability mechanisms in policy, and providing the necessary support for professional learning, Mississippi continues to be successful.

How Colorado helped teacher preparation make the shift

Colorado programs exhibit the strongest performance in program scores, with one-third of its programs earning an A+, and 13 out of 15 programs earning an A or a B. None earned lower than a C. We identified almost zero contrary practices in its programs. By contrast, in NCTQ's 2020 Review, only five Colorado programs earned an A or a B, with six programs earning a D or an F.

A key ingredient to Colorado's success? How the state changed its approach to approving educator preparation programs.

In 2012, Colorado passed the READ Act—legislation that focused on changing how current teachers taught reading in schools and moved classroom instruction across the state toward evidence-based practices.³⁵ The state was unequivocally coming down on the side of scientifically based reading practices, and the Colorado Department of Education (CDE) was committed to reflecting that intent in how it reviewed educator preparation.

In 2016, the state board issued new literacy standards for elementary teachers, to which preparation programs were required to align their course content. The new standards were aligned to scientifically based reading instruction and represented an explicit directive to prep programs to update their coursework to align to evidence-based practices.

By 2018, four programs (including the largest preparer of teacher candidates in the state) were up for renewal of their program approval. The state's review authority was strengthened by both the READ Act and the new standards as it looked for specific evidence of alignment to scientifically based reading instruction. First, the CDE created a detailed matrix for programs to complete prior to its site visit to determine not only if the standards were being taught, but also whether candidates had opportunities to practice and receive feedback on these skills through aligned clinical experiences.

Starting with this cohort, CDE's educator workforce team began conducting more rigorous assessment of prep programs' instruction in "emergent reading," inviting literacy experts from the agency's Student Learning Division into the review and approval process. Literacy experts now attend program approval visits, where they evaluate syllabi, conduct class visits to literacy courses, and give feedback on their alignment to state standards.

Mary Bivens, CDE's executive director of Educator Workforce Development, says that while reviewing inputs like course descriptions are valuable, getting at candidates' learning outcomes through interviewing has helped deepen their review process. State reviewers interview faculty, current teacher candidates, and recent graduates to gauge their understanding of scientifically based reading instruction. These interviews get at the outcomes of a program's approach and provide direct evidence of how well faculty and students understand teaching reading—in some cases identifying that candidates did not know the five components of reading.

WORK SESSION AUGUST 21, 2024

ATTACHMENT 2

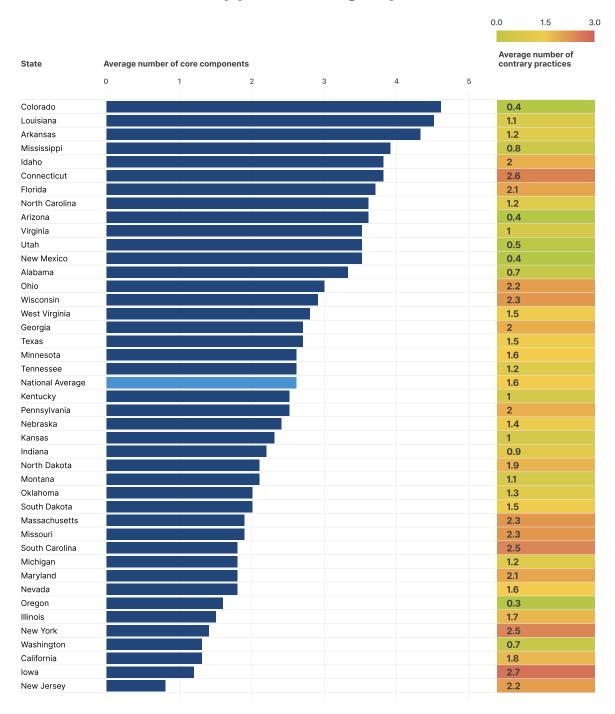
When the state began its new review process, CDE quickly realized that under its current approval structure, program review had only two possible end points: approval or probation. But putting programs on probation would be a sweeping action that meant a program could no longer enroll new candidates—a serious consequence for a state where a large share of programs (including those that graduated the most Colorado teachers) were not yet teaching scientifically based reading instruction. With only these two options for program approval, the state did not have an option that compelled programs to improve without imposing immediate consequences that did not allow programs the time to make needed changes. So CDE proposed a third category to the state board of education: conditional reauthorization. A program could be recommended for approval if it was able to demonstrate it had made required changes from the state within one year. The board accepted this third option, and later that year, the state legislature enshrined conditional reauthorization in state code.

When a program was granted conditional reauthorization, the state provided a list of specific changes to be made within the year, such as embedding state standards on scientifically based reading instruction into clinical experiences for teacher candidates. To help programs, CDE began offering monthly calls with each program granted conditional reauthorization to support its progress in making needed changes. Depending on the identified weaknesses, programs can be required to make a range of changes, from updating course materials to retraining all faculty in scientifically based reading instruction.

Between 2018 and 2023, CDE conducted 23 reauthorization site visits with programs that have scientifically based reading standards in one or more endorsement area (elementary, early childhood, special education). Seven programs were subsequently put on conditional reauthorization to address deeper content for and understanding of scientifically based reading instruction for their candidates.

This new approach to program approval resulted in a swift and dramatic difference in the state's performance on the *Teacher Prep Review*. Colorado programs, on average, satisfied 4.6 out of five components and demonstrated almost no evidence of contrary practices across all programs. Programs across the state demonstrated that change can happen quickly, too: Colorado programs rose from the middle of the pack in our 2020 *Review* to the top in 2023.

Comparison between average core components and average contrary practices taught by state



Note: Nine states—Alaska, Delaware, District of Columbia, Hawaii, Maine, New Hampshire, Rhode Island, Vermont, and Wyoming—have fewer than five programs in the analysis and are therefore not included in the table above.

Because the bulk of course materials analyzed for the Reading Foundations standard were submitted in fall 2022 or earlier (except when programs chose to submit new materials in response to the preliminary analysis), any state policies enacted in 2023 that affect teacher preparation programs may not yet be reflected in program grades.

5

Programs provide little preparation in teaching reading to English learners, struggling readers, and speakers of English language varieties

All educators need to be prepared to teach a range of students with diverse needs in learning to read. For the first time as part of the reading standard, NCTQ analyzed the extent to which programs prepare candidates to teach three groups of students: English language learners (students in the process of acquiring English and who have a first language other than English), struggling readers (students who experience academic difficulties in the area of reading, including students with dyslexia), and students who speak language varieties other than mainstream English (such as speakers of African American English (AAE)). We looked at the programs' use of instructional time, objective measures of knowledge, background materials such as textbooks, and opportunities for aspiring teachers to practice. To deliver on the promise of an excellent and equitable education, teachers must be equipped to meet the differentiated needs of their students.

English language learners

English language learners are one of the fastest–growing populations of students in our schools, with over 5 million English language learners enrolled in public schools, ³⁶ an increase of 35% over the last two decades. ³⁷ Teacher preparation programs are not keeping pace with student demographic changes—71% of programs dedicate less than **two** instructional hours to teaching reading to English language learners, meaning most new teachers enter classrooms without knowledge and skills to teach English language learners to read. Furthermore, 88% of programs in the sample do not require any practice opportunities with this group of students, so most aspiring teachers never practice teaching English language learners to read before entering the classroom.

English language learners



71% 88% of programs dedicate **fewer than two instructional hours** to supporting English language learners

of programs offer **no practice opportunities** on teaching
English language learners

English language learners benefit from explicit instruction in the five components of reading, as do native English speakers. However, because these students are learning to read in English as they are learning to speak and understand it (assuming they are not in a bilingual education program and learning to read in their home language), they also need additional English language development instruction so they become familiar with the meanings and the sounds of the words being used to teach foundational skills. Recent publications from What Works Clearinghouse and the National Academies of Science, Engineering, and Medicine identify specific practices to support English learners. In addition to providing explicit literacy instruction, all prospective teachers should learn how to support English language learners by:

- 1. Screening for reading problems and monitoring progress. For kindergarten and first grade students, this may include determining students' familiarity with the alphabet, rhyming, sound blending, and ability to read single words. For students in later elementary grades, this would include oral reading fluency assessments. Teachers need training on which assessments are best to use for English language learners, how to conduct formative assessments, and how to use data from these assessments to guide instruction for English language learners. They also must be able to distinguish between reading problems and issues related to oral language development.
- 2. Providing extensive and varied vocabulary instruction including in academic vocabulary. Evidence finds that explicit vocabulary instruction supports English language learners' development of reading comprehension once they have mastered the foundational literacy skills. Aspiring teachers should learn to provide vocabulary instruction that includes "multiple exposures to target words over several days and across reading, writing, and speaking opportunities" with "student-friendly" definitions of words. ⁴¹ Vocabulary words should include both academic vocabulary (vocabulary that is common in writing and formal settings) and vocabulary specific to certain content areas, as well as words that native English speakers are likely to know that English learners may not be familiar with, along with common phrases and expressions. Teachers should be equipped to teach content concurrently with the associated academic language. ⁴² What Works Clearinghouse notes a paucity of curricular materials that provide a scope and sequence of how to teach academic English, ⁴³ making it that much more important for teacher preparation programs to provide aspiring teachers with instruction in how to develop this aspect of the curriculum themselves.

While not addressed in depth by What Works Clearinghouse or the National Academies of Science, the field is coalescing around the importance of oral language instruction and development for multilingual students. Development of language can occur throughout the school day, but multilingual students benefit from specific and varied opportunities for oral language development and practice. ⁴⁴ Oral language instruction should focus on the development of **vocabulary** and **syntax**, or the rules of how a language puts together words to form sentences. This can also include using opportunities for extended discourse to support syntax development. Although no strong research currently exists examining the effects of syntax interventions, ⁴⁵ there is support for the necessity for

English learners to engage in extended conversations with teachers to elicit, model, and affirm student speech.⁴⁶ Students may also benefit from using narrative language to recount a set of events through narrative language.

- 3. Providing intensive small-group reading interventions that include English language development. This instruction should focus on the core components of reading and rely on explicit, direct instruction. This small-group instruction should include opportunities for students to engage in discussions using the words in the texts they are reading, respond to and pose questions, learn the meanings of words and become familiar with the phonemes within the words being used, practice reading words and sentences, and receive clear feedback from teachers to correct errors. Teachers need ongoing support that includes an emphasis on how to pace instruction and how to correct errors, and how to incorporate English language development instruction targeted at the words and texts students are learning to read.⁴⁷
- 4. Scheduling regular peer-assisted learning opportunities. English language learners of varying language proficiency should work together several times a week on structured academic tasks; teacher candidates should learn how to set up these peer-assisted learning opportunities.
- 5. Capitalizing on students' home language, knowledge, and cultural assets. Teacher candidates need to learn how to build upon students' home language to support their literacy development in English. This instruction could include providing a preview of content in a child's home language, reading stories in the child's home language, offering definitions of vocabulary in the home language, helping children learn cognates for English words (for example, asking Spanish-speaking students to identify cognates like "mysterioso" and "mysterious"), and connecting key concepts with children's prior knowledge.
- 6. Providing visual and verbal supports to help students understand core content. These could include instructional videos, visuals, and graphic organizers. English learners benefit more than their English-proficient peers from "'Telling,' defined as the teacher providing students with information rather than engaging them in the creation of information."⁴⁸

Exemplary programs can integrate instruction on how to teach English language learners using varied program structures—for example, Eastern New Mexico University (Undergraduate, NM) requires that all candidates take a course dedicated to teaching practices proven to benefit English language learners, while Florida State University (Undergraduate, FL) integrates instruction about teaching English language learners across multiple courses.

Winthrop University (Undergraduate, SC) requires teacher candidates to plan and implement a lesson using a research-supported strategy targeting the needs of an English Learner within their host classroom.

Example assignment description

SOUTH CAROLINA

Winthrop University

Five Principles of Effective Instruction for ELs – Content Strategy Lesson: You will use your textbook to identify strategies rooted in one of the 5 Principles of Effective Instruction (defined on the course blackboard page). Then you will plan an activity relevant to the content in your major. This lesson planning will help you prepare to teach in the host teacher's classroom.

English Learner Case Study Part A: (Key Assessment: See separate rubric on Rex website, Via, or Course Blackboard page)

- Describe general background information on your assigned individual EL; and
- Analyze the student's academic, language, and social strengths and needs.
- Support conclusions with provided and observational data from the field.

English Learner Case Study Parts B-F: (Key Assessment: See separate rubric on Rex website, Via, or Course Blackboard page)

- Select, describe, and justify a research-supported strategy targeted for the individual EL;
- $\,$ Plan a lesson to include a research-supported strategy targeted for the individual EL;
- Implement the strategy while connecting with the host teacher;
- Evaluate the success of the lesson;
- Explain if the student accomplished the lesson objective and give description or work samples to support;
- Reflect on your personal growth and the relevance of this course to your future classroom and needs for the EL student's future academic support and/or social integration.

Struggling readers

Over a third of fourth grade students perform below basic on national reading assessments, indicating that even after years of elementary instruction, they are struggling to learn to read.⁴⁹ While many struggling readers suffer from poor reading instruction, it is estimated that 15%–20% of the population as a whole exhibit "some of the symptoms of dyslexia, including slow or inaccurate reading, poor spelling, poor writing, or mixing up similar words." Students with these types of learning differences "are likely to benefit from systematic, explicit instruction in reading, writing, and language." ⁵¹

Despite the prevalence of struggling readers, nearly 60% of programs spend less than two hours of instructional time teaching candidates to support struggling readers; furthermore, just 19% of programs require any practice opportunity focused on this group of students.

Struggling readers



of programs dedicate **fewer than two instructional hours** to supporting struggling readers

of programs offer no practice opportunities on teaching struggling readers

Teachers of struggling readers need to be able to teach the five components of reading. All students, and especially struggling readers, need explicit, systematic teaching of literacy (including phonemes and letter-sound relationships), practice, student-teacher interaction, carefully chosen examples, decodable text, and feedback that corrects their errors. ⁵²

Aspiring teachers must be able to assess and identify which specific foundational reading skills a student is struggling with, what interventions to deploy to address this deficit (including knowing when to bring in a reading specialist or the help of a reading coach), and how to monitor progress based on research-based methods. Furthermore, teachers need to be empowered to recognize the profile of children who are at-risk, or struggling readers. This includes the ability to not only recognize the signs of dyslexia, but also appreciate the intensity and explicitness of the instruction a student may need to become a skilled reader.

Exemplary programs ensure teacher candidates are prepared to teach students with reading difficulties by emphasizing structured literacy programs– including direct, explicit instruction to students in the five components of reading, screening and progress monitoring assessments, and multi-tiered systems of support.⁵³

A sample course session from **Mount St. Joseph University** (Undergraduate, OH) emphasizes research-based content on how to best serve struggling readers with instruction on reading difficulties, dyslexia, and multi-tiered systems of support.

Example description of instruction

Week 13

11/16

11/18

 Communicating data to parents, teacher teams

- · Learning disabilities
- Dyslexia
 - Identification practices
 - Discrepancy formula and why not used
 - MTSS and the identification process

Watch

· Strickler lecture

Read

- The following Fact Sheets on IDA's website:
 - https://dyslexiaida.org/fact-sheets/
- Dyslexia Basics
- Dyslexia Assessment
- Effective Reading Instuction for Students with Dyslexia
- When Educational Promises are Too Good to Be True

Quiz

Discussion Board

Diagnostic Case Study—Evidence Based Practices:

Presentations due by November 23 at 4:00pm. Individual papers due by November 24 at 11:59pm

Speakers of language varieties other than mainstream English

Students who are speakers of language varieties other than mainstream English have always been present in American classrooms, but most new teachers never receive any training on how to best serve these students in learning to read. Varieties of English are rule–governed languages spoken by communities connected by race, culture, and identity⁵⁴—and the U.S. is host to many dialects of English, including African American English (AAE), Cajun English, and Appalachian English, among others.⁵⁵ Despite this, few programs (9%) in the sample provide any instruction at all on how to teach students who speak varieties of English how to read.

This appears to be a nascent area in teacher preparation, one that merits more attention from programs themselves and from those developing resources such as textbooks to support teacher preparation. It is necessary to prepare teachers to support students who speak English language varieties through culturally and linguistically responsive instruction, including respecting and recognizing the diversity of language that students bring to the classroom. Though failing to attend to a mismatch between home and school language can hinder reading acquisition, ⁵⁶ being bidialectal should be considered a strength as it demonstrates students' linguistic flexibility when teaching target skills. ⁵⁷

While more research is needed to identify the most effective instructional strategies, with proper training and coursework on dialects of English, teachers can understand and be able to teach students the idea of "code switching," or adapting their language depending on their context. Teachers can also help students through "contrastive analysis," in which they sort sentences into language that fits better in different settings; "transforming," in which they identify which word would be appropriate for school language; and "formulation," in which students are given a picture about which to write a sentence using a target language feature such as a plural –s. ⁵⁸ Teachers should also learn how to employ a "test–teach–retest" approach, which can help determine if children's reading struggles are due to a language and dialect difference or to language deficits. ⁵⁹

As teacher preparation programs integrate support for these learners into their courses, they may consider the following free, research-based resources as a place to begin:

Resources for teaching students who speak varieties of English

| Туре | Title | Authors and/or Experts |
|---------|--|--|
| Lecture | Cultural Considerations for Diverse Readers | Dr. Lakeisha Johnson |
| Lecture | Distinguishing Between Difference, Disorder, and Disadvantage | Dr. Lakeisha Johnson |
| Lecture | African American Dialect: What it Does to the English Language | Dr. Julie A. Washington |
| Podcast | An Integrated Approach to Supporting All Learners | Dr. Lakeisha Johnson |
| Article | Teaching Reading to African American Children | Dr. Julie A. Washington, Dr. Mark S. Seidenberg |
| Article | Evidence-Based Practices in the Assessment and Intervention of Language-Based Reading Difficulties among African American Learners | Dr. Brandy Gatlin-Nash, Dr. Lakeisha Johnson |
| Article | Linguistic Differences and Learning to Read for Nonmainstream Dialect Speakers | Dr. Brandy Gatlin-Nash, Dr. Lakeisha Johnson, and Dr. Ryan Lee James |

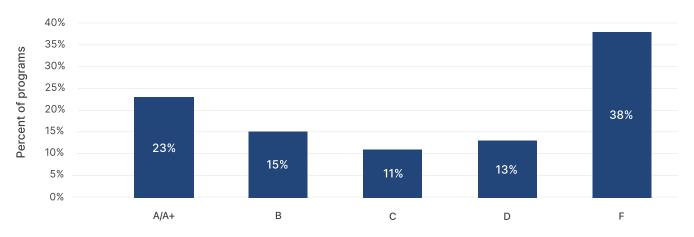
6

Distribution of program grades in 2023

As part of the *Review*, programs earn a grade based on the number of components of scientifically based reading instruction they adequately cover, including dedicated instructional hours, objective measures of candidate knowledge, use of appropriate background materials, and opportunities to practice. Programs earning an A adequately cover all five components with limited instruction on contrary practices. Subsequently, NCTQ reduces programs by one letter grade for each component not adequately covered (so those adequately addressing four of five components earn a B) and also deducts one letter grade from programs that teach four or more contrary practices. To earn an A+, programs must adequately cover all five components, but meet a higher point threshold for each component, and teach no practices contrary to the science of reading.

These program scores should not be compared to prior editions of the NCTQ reading standard. The revised 2023 Reading Foundations standard has changed in several ways that affect scoring based on the results of 18 months of stakeholder engagement including an expert panel, an open comment period, and a technical advisory group. A detailed description of the scoring methodology, including the rubric used to evaluate each component, is available here.

Figure 8. Distribution of grades



Grade on the 2023 Reading Foundations Standard

Note: n = 693. Percentages are rounded and may not add to 100%.

See how your state compares.

View this data online to filter by state or explore individual program data.

WORK SESSION AUGUST 21, 2024

ATTACHMENT 2

While 693 programs provided material for review by either cooperating directly with NCTQ or publicly posting syllabi, 443 programs chose not to make their materials available for review. These non-cooperative programs, located in 44 states and the District of Columbia, prepare an estimated 16,000 elementary teachers each year, 60 most of whom will go on to teach in public schools. It is the position of NCTQ that when colleges and universities choose to open a program to prepare the next generation of teachers, they are, in effect, entering into an agreement with not only the state, which approves the program to operate, but also the school districts that hire the teachers, the aspiring teachers who enroll in the program, and the students who will learn from teachers prepared by these programs and expect them to be experts in their field. For this reason, NCTQ believes preparation programs have a moral obligation, as well as a legal one, to disclose to their stakeholders how they are preparing aspiring teachers and whether that preparation aligns with the best available research-based practices.

For a list of institutions that were not willing to provide information about their reading preparation and/or for which NCTQ was unable to obtain materials, please see <u>Appendix E</u>.

RECOMMENDATIONS

Actions for teacher preparation programs

- Use the detailed feedback that NCTQ provided in your program score to determine whether courses adequately teach all components, and where there are opportunities for growth.
 - Although all five components are important, we recommend paying especially close attention to whether your program provides in-depth instruction on phonemic awareness, the most commonly overlooked component.
 - Be sure to look at the quality across all sections of a course to determine if there
 is any inconsistency in quality or additional room for improvement. When
 multiple sections of a course are taught by different faculty members, NCTQ
 only reviews one section; therefore, it is important for programs to review for
 quality across all sections of a course.

2 Consider how to modify existing courses to include more scientifically based reading instruction.

- More coursework is not always the answer. High-performing programs range
 in the number of courses they require, but all use high-quality background
 materials, sufficient instructional time (at least 34 direct instructional hours),
 aligned measures of knowledge, and opportunities for practice.
- Even adjusting a few lecture topics and assignments to focus on core components of reading instruction could make a big difference for aspiring teachers' understanding of reading instruction. The strongest programs in our sample, like Western Colorado University (Undergraduate, CO) or Olivet Nazarene University (Undergraduate, IL), have anywhere from two to seven courses dedicated to reading, with some time devoted to other topics (e.g., children's literature or writing).

Ensure that practice opportunities give candidates the chance to apply all components of effective reading instruction.

While many reading courses have field opportunities, candidates are not always
required to practice specific elements of what they have learned, meaning they
may never get the opportunity to give a fluency assessment or teach decoding
strategies. Rather than requiring candidates to practice teaching a lesson
without further parameters on the content of the lessons, be sure candidates
have specific opportunities to frequently practice teaching or assessing each of
the core components of reading.

Use high-quality, research-based background materials.

- Textbooks provide an important resource to candidates while they are in their preparation program and serve as a reference during their years in the classroom. Ensuring these materials are of high quality provides teachers with reliable resources. Textbooks and other background materials vary widely in quality. As part of the revised standard, NCTQ examined all required instructional resources. Courses should use high-quality, research-based background materials such as those in NCTQ's Reading Instructional Materials database, which includes a review of all background materials analyzed in the Teacher Prep Review 2023 sample. High-quality materials cover the components of reading in sufficient depth, do not contain content contrary to research-based practices, and use high-quality research support.
- Some candidates may start their careers teaching in districts that still employ
 balanced literacy curricula, therefore it is important to teach candidates about
 valid and reliable assessments, and to offer examples of scope and sequences for
 phonemic awareness and phonics.

Eliminate instruction on content contrary to researchbased practices.

- Work with instructors across all sections of a course (when the same course is taught by multiple instructors) so they do not teach practices that science has proven are not the best way to teach children how to read.
- For a comprehensive explanation of some contrary practices, see our summary of the contrary practices in <u>Appendix C</u> or the full research basis in the <u>Technical Report</u>.

WORK SESSION AUGUST 21, 2024

ATTACHMENT 2

- 6
- Provide support to build capacity across the entire preparation program to promote scientifically based reading instruction.
- Consider offering additional training for current faculty who may not be well versed in the science of reading.
- When hiring reading instructors, ask for evidence that they are both well versed
 in and committed to teaching candidates about scientifically based reading
 instruction and will not teach content contrary to research-based practices.
- Invite reading experts to review course syllabi and materials.
- Use networks (such as <u>Stronger Together: The Alliance for Reading Science in Higher Education</u>, <u>The Reading League</u>, <u>National Center on Improving Literacy</u>, <u>Center for the Success of English Learners</u>, or the <u>International Dyslexia Association</u>) to connect with experts in scientifically based reading instruction to improve program quality.

Actions for state leaders

Set specific, explicit, and comprehensive preparation standards for scientifically based reading instruction.

• Listing the five components is not enough; standards need to explicitly identify what candidates should learn (e.g., prep programs should teach phonemic awareness, why this area is important for children's reading development and attainment of the alphabetic principle, what common patterns are in the development of phonemic awareness, specific goals of instruction such as blending and segmentation, and how to assess students' phonemic awareness). The standards in Utah and Texas provide strong examples.

2 Hold programs accountable for implementation of scientifically based reading instruction.

- Incorporate a specific evaluation of reading instruction in program renewal or reauthorization processes and take action if programs are not aligned to the state's standards for scientifically based reading instruction.
- Standards alone will not improve reading instruction. They must be explicit
 and coupled with implementation support (training, feedback, high-quality
 curricula) and accountability (data and evidence used to inform decisions
 about program approval) to see widespread results. See Colorado's detailed
 requirements for programs through its program renewal process.
- Conduct site visits and include literacy experts. Often program approval or reauthorization processes focus on broad program operations. Focusing specifically on the teaching of reading will support the improvement of elementary teacher prep programs as well as early childhood and special education prep programs. States should set a regular and frequent schedule for evaluating whether prep programs are integrating scientifically based reading instruction into coursework. States should also require adequate practice opportunities in preparation—and measure these opportunities in program review. Visit classrooms, talk to teachers and staff, and collect qualitative data to help inform approval decisions.
- Make conditional approval—with clear timelines and identified areas for improvement—an option. States should consider in their regulations whether conditional approval is an option for the authorizing entity (either the department of education, state board, or higher education commission).
 While reading could be a weak area for a program, it may have other strengths.
 Allowing conditional approval, along with clear expectations and strict timelines, can bring about the desired change while permitting the program to operate.

- Require a reading licensure test aligned with scientifically based reading instruction for all elementary teachers to earn licensure, and publish the pass rates.
 - Verify the state-required test is strong and measures candidates' knowledge of the core components of reading instruction.
 - Require all elementary teachers—as well as early childhood educators, special
 education teachers, and reading specialists who instruct PK-5 students—to
 demonstrate their knowledge of how to teach reading.
 - At a minimum, provide data to programs on first-attempt and best-attempt
 pass rates on reading licensure tests. This will provide feedback to programs
 on how candidates are doing, and allow programs to track and support
 improvement efforts.
 - To provide an understanding across the state, publish pass rate data on the licensure tests.

Deploy a comprehensive strategy to implement scientifically based reading instruction and prioritize teacher prep.

- Follow the lead of states like <u>Colorado</u> and <u>Mississippi</u> and take a comprehensive approach to policy and practice, with an emphasis on teacher preparation that impacts student learning in reading and includes approaches to support struggling readers, English learners, and speakers of language varieties other than mainstream English.
- In addition to holding prep programs accountable for reading instruction, states
 can build teacher prep capacity through various means, such as inviting teacher
 prep faculty to join statewide professional development, supporting programs
 with competitive funding to revise their programs, or creating communities of
 practice where programs can learn from other exemplary programs as to how
 they made the transition.
- Some states, such as North Carolina and Alabama, have invited external
 reviewers such as the Barksdale Reading Institute and TPI-US to inspect their
 teacher preparation programs (e.g., observe courses and interview faculty and
 teacher candidates) and report on their findings.

Use the bully pulpit and take action.

- To send an important signal that reading instruction matters, state leaders
 such as governors, state education chiefs, state board members, and university
 system leaders should adopt their own platform-specific goals for increasing
 reading outcomes, set standards for the institutions they lead, and ask their
 organizations and staff to report on progress toward those goals.
- NCTQ has observed that progress—both at the program and state levels—is
 often a result of courageous leaders who set clear expectations, measure
 progress, and promote accountability. In doing so, leaders help their states
 reach the goal that all students, and especially students who have been
 historically marginalized, have access to teachers with the knowledge and
 skills to be effective. When necessary, these leaders make difficult (and
 sometimes politically risky) choices to follow through on their commitments
 on behalf of the students and families they serve.

Actions for school districts

- Be strategic in recruiting new teachers. To the extent possible, focus hiring efforts on teachers from preparation programs adequately teaching scientifically based reading instruction, or from stronger programs in your region.
 - Training teachers is expensive. Focusing on hiring from programs already
 providing a foundation in reading instruction will save your district money and
 will better support your students' literacy outcomes.
 - Hiring from stronger programs sends a signal to all programs that they need to
 provide instruction aligned with scientifically based reading research. Use data
 from the *Teacher Prep Review* to focus recruitment and hiring on programs with
 a strong track record.
 - Because graduate programs tend to provide weaker preparation on reading, be particularly attentive to evidence that teachers from graduate preparation programs have learned scientifically based reading instruction (e.g., consider their score on a relevant licensure test, check the quality of the graduate program's early reading instruction in the *Teacher Prep Review*, and ask a few questions about literacy instruction during the interview process).

Prioritize partnerships for field experiences with programs committed to teaching scientifically based reading instruction.

- Student teaching is an excellent opportunity to hire strong candidates
 early. Bringing in student teachers from programs providing instruction in
 scientifically based reading provides an opportunity to hire from this pool early
 on, and it sends a message to other programs that they need to strengthen their
 reading instruction.
- Match student teacher candidates to mentor teachers with a proven track record
 of effectiveness in teaching reading based on the science. Don't assign student
 teachers to teachers who would be poor models of teaching reading or use
 contrary practices in their instruction.

- Provide professional development opportunities for teachers already in the classroom who were not prepared in scientifically based reading instruction practices.
 - While not exhaustive, some resources to consider include LETRS, Neuhaus Education Center, CORE Learning, and Essential Actions: A Handbook for Implementing WIDA's Framework for English Language Development Standards.
 - See examples of high-quality professional development opportunities.

- Review, select, and carefully implement high-quality reading curricula approved by your state or other external reviewers along with aligned, job-embedded, high-quality professional development to skillfully implement the curricula, and share your curriculum resources with teacher preparation partners.
 - This is particularly important in the context of preparation for student teachers, who can begin learning about this curricula—and how to implement it—during their student teaching experience and have a "leg up" when it comes to starting to teach in your district.
 - Examples of external curriculum reviewers include:
 - The Reading League's Curriculum Evaluation Guidelines
 - Student Achievement Partners
 - What Works Clearinghouse
 - Ed Reports

Actions for advocates, teachers, and parents

- Use your voice! Ask questions and advocate to ensure scientifically based reading instruction is used in local schools.
 - Learn more about scientifically based reading instruction—start with <u>Science of Reading: Defining Guide</u> and the podcast <u>Sold a Story</u>, or dive into resource—packed websites like <u>Reading Rockets</u>, <u>Florida Center for Reading Research</u>, and <u>Colorín Colorado</u>. Send letters to a university's board of trustees and your district's school board, or testify at public hearings advocating for professional learning and curricula aligned to scientifically based reading instruction.
 - Advocate for adoption—both at the district and state levels—of curricula (including core curricula, intervention programs, and supplemental materials) that provide systematic and explicit reading instruction to teach the five components of scientifically based reading instruction. If they exist, call for the removal of low-quality curricula from classrooms, such as those based in balanced literacy, leveled readers, or the use of three-cueing. Share these resources on scientifically based reading instruction with state legislators so they understand the importance of curricula as a help or a hindrance in quality reading instruction.
 - Partner with other advocates in your area to learn more about scientifically based reading instruction, find additional resources, and join community efforts to improve your local schools. Look for groups like <u>Decoding Dyslexia</u> or <u>The Reading League</u>.
 - Advocate for local schools to focus their hiring practices on teachers who
 are well prepared and committed to scientifically based reading instruction,
 especially local preparation programs earning a high grade in the *Teacher*Prep Review.

PROMISING PRACTICES

Programs performing the strongest on the Reading Foundations standard provided their aspiring teachers ample opportunities to learn about, practice, and demonstrate knowledge of all five reading components. Additionally, these programs provide no instruction in content contrary to scientifically based reading instruction.

The leaders of programs at these institutions shared what their programs do and how they built a high-quality approach to prepare their candidates to teach reading.

- Fort Lewis College (Colorado)
- 2 Samford University (Alabama)
- Southern University and A&M College (Louisiana)
- 4 Southern Utah University (Utah)
- 5 Texas A&M University Texarkana (Texas)
- **6** University of Virginia (Virginia)



Fort Lewis College (Colorado)

Undergraduate program

Dr. Jenni Trujillo, Dean, School of Education

At Fort Lewis College, we have had a long-standing commitment to preparing teachers who have a nuanced understanding of research-based reading instruction and are prepared to enter classrooms as strong literacy teachers. Our program creates teachers who understand their students and communities, and know how to design effective reading instruction in ways that draws upon students' cultural and linguistic assets, as well as their individual needs as learners.

Our literacy course sequence is designed to provide students with strong foundational knowledge of language and literacy. The focus on reading begins with a linguistic overview and a developmental perspective grounded in early language and literacy concepts.

A recent addition to the literacy scope and sequence is a new course titled *Teaching Reading K-3*, a course focused on methods for designing and delivering effective research-based reading instruction. In the course, teacher candidates learn how to design instruction, teach, and assess phonological and phonemic awareness, phonics, vocabulary development, and reading fluency including oral skills, and reading comprehension using pedagogically sound, research-based techniques. Candidates apply their understanding of course concepts through intensive field-based practicum experiences in elementary schools around the Four Corners, including rural and Tribal communities. These practicum experiences support teacher candidates to develop deeper understandings of effective reading instruction for diverse populations of students as they implement and apply knowledge through course assignments with the support and feedback from the course instructor and mentor teachers in the field.

Samford University (Alabama)

Graduate program

Dr. Amy Hoaglund, Assistant Dean & Professor, Orlean Beeson School of Education

In 2019, the Alabama legislature passed the Alabama Literacy Act to improve the reading proficiency of kindergarten through 3rd grade students in the state. Samford University's Teacher Education programs were eager to enhance reading courses ensuring their future teachers were prepared to meet the goals of this legislation. In an effort to meet the Literacy Act requirements for institutions of higher education, Samford faculty developed a timeline to review and determine the necessary programmatic changes. Through steps such as the establishment of their own reading task force, course modification and collaboration with the International Multisensory Structured Language Education Council (IMSLEC), Samford's Teacher Education program earned educator pre–service program affiliation with IMSLEC.

It is important that teacher preparation programs review the implementation of the science of reading content and strategies within their program as well as in embedded clinical experiences to determine what pre-service teachers need to become successful reading teachers. Based on recommendations from Samford's Reading Task Force and the IMSLEC review process, faculty in the Elementary Alternative Master's Program carefully aligned nine hours of the science of reading instruction in the courses culminating in a comprehensive action research project requiring pre-service teachers to engage in Structured Literacy and assessment strategies. The redesign of the courses ensures that Samford's teacher candidates receive essential training based on current research on how children learn to read, while pairing the training with structured, authentic practical applications in field experience.



Southern University and A&M College (Louisiana)

Undergraduate program

Dr. Erin Scott-Stewart, Assistant Professor, School of Education

In our program, we want our candidates to understand how important it is for each child in their care to learn to read. Through course work and teaching experiences, our goal is to shift our pre-service teachers' mindsets about reading instruction. In addition to understanding and being able to teach foundational reading skills and literacy strategies, we also want our candidates to understand the importance of creating what McEwan (2009) calls "a reading culture" in which children learn to read, read to learn, and read for fun.

We help candidates as they strive to provide whole group instruction, differentiated instruction, prevention, and intervention. Throughout the program, our pre-service teachers leverage high-quality instructional materials in their courses, during field-based teaching experiences, and during the one-year teacher residency. Literacy is at the center of our methods courses, and we work with our candidates and partner schools to ensure that what we do aligns with evidence-based and culturally relevant practices that contribute to equitable educational experiences for the children of our communities.

McEwan, E. K. (2009). Teach them all to read: Catching kids before they fall through the cracks. Corwin Press.



Southern Utah University

Undergraduate program

Tony Pellegrini, Professor & Teacher Education Department Chair

Stacy Hurst, Lecturer, Teacher Education

Our SUU Teacher Education Department's teacher preparation program is committed to providing high-quality reading instruction that incorporates evidence-based practices for teaching reading, such as explicit instruction in phonemic awareness, phonics, fluency, vocabulary, and comprehension. Our program also provides our candidates with opportunities to practice and apply these instructional strategies in a variety of contexts, such as in clinical experiences or fieldwork. Additionally, our program ensures that our candidates have a deep understanding of the science of reading and the ability to assess and address the diverse needs of their learners, including those who may have reading difficulties.

Through ongoing professional development and collaboration with practicing K-12 mentor teachers and literacy experts, Southern Utah University strives to stay current with best practices and research in the field of reading instruction to support the success of all learners. Key faculty members attend annual conferences hosted by organizations such as <u>The Center</u> for Literacy and Learning, The Reading League, and the <u>International Dyslexia Association</u>.

Additionally, lecturer Dr. Hurst is part of a LETRS cohort of college professors in Utah who are dedicated to teaching the science of reading, is a founding member of Stronger Together: The Alliance for Reading Science in Higher Ed, and hosts a podcast, Literacy Talks, addressing topics related to the science of reading and collaborates with literacy experts through that venue as well.

SUU candidates attend practicums in local elementary schools where Southern Utah provides free inservice training for participating teachers on topics like effective phonemic awareness and phonics instruction.



Texas A&M University - Texarkana

Undergraduate program

C. Kelly Cordray, Ed.D., Chair and Assistant Professor in the Department of Teaching and Professional Programs in Education

I was hired four years ago to align all reading courses to the Science of Teaching Reading (STR). Since that time, I have worked tirelessly to make sure that every competency is fully covered and reinforced throughout the coursework at a pace and with enough practice that allows students to truly gain understanding in a way that will affect their teaching. I tell my candidates clearly that the journey to understanding the science of teaching reading will take them the full three semesters they spend in reading coursework.

STR is not the reading instruction most of my students grew up experiencing; so, we take time to investigate each component and any time I feel there is an area that needs more or different emphasis, I rework the course. Just as STR emphasizes direct, explicit teaching, I model by pointing out the how and why of each component, tying it all to foundational models such as Scarborough's Rope and the Simple View of Reading. It also means that I provide professional development support to other faculty and adjunct faculty that teach any of the three courses to ensure we all present the material in the same manner.

Although higher education is built around the tenet of academic freedom, my colleagues in our teacher preparation program have discussed on many occasions that due to the fact that our candidates have several certification exams they are responsible for at the end of the degree, we do not have the same freedom to pick and choose the concepts we include in our coursework especially when it comes to research-based reading instruction. Instead, we choose to be very intentional with the content and practicum, so our graduates leave our program Day 1 Ready!



University of Virginia

Graduate program

Dr. Emily Solari, Edmund H. Henderson Professor of Education, School of Education and Human Development

Dr. Latisha Hayes Associate Professor, School of Education and Human Development

The University of Virginia's Elementary Teacher Education program's literacy coursework is designed based on the most recent reading science and aligns the acquisition of new content, review opportunities, and spiraling of common content alongside cohesive practice opportunities. The MT in elementary education is a one-year program, running June through May. Preservice teacher candidates complete coursework on the foundations of reading development with applied practice with evidence-based classroom methods. This work is grounded in reading science, which allows candidates to understand the necessity of explicit and systematic instruction in the early grades in foundational reading skills (alphabetic principle, phonemic awareness, and phonics) with concurrent development of oral language skills and background knowledge to develop students into readers who gain meaning from written text (i.e., reading comprehension). The reading methods course also highlights reading and early language instruction for diverse learners including English Learners and speakers of non-mainstream English.

The teacher education program's reading methods courses develop teacher knowledge alongside practical application in classroom settings. In addition to the reading methods coursework, teacher candidates complete a clinical experience course where they work one-to-one with an elementary grade student using an evidence-based reading intervention program, providing them the opportunity to engage with scientifically aligned reading instruction and practices. During the practicum, students engage with 1) the overarching concepts of science-based reading development, 2) assessment practices, and 3) pedagogical skills based on evidence from multiple disciplines, including cognitive and developmental sciences, neuroscience, linguistics, education, and communication sciences.

ACKNOWLEDGEMENTS

NCTQ Teacher Preparation Team

Shannon Holston (Chief of Policy and Programs), Graham Drake (Managing Director, Data and Analysis), Hannah Putman (Managing Director, Research), Christie Ellis (Director, Special Programs), Ruth Oyeyemi (Senior Analyst), Maria Burke (Analyst)

Lead Advisor

Linda Diamond, Teaching Reading Sourcebook

Reading Analysts

Mary Alibrandi (Lead Analyst), Jamie Ciancio (Lead Analyst), Michelle Ciletti, Kristen Killian, Nicole McCann, Lauren McCarthy, Tamara Nickerson, Kelly Ramirez, Julie Shirer, Alexandra Vogt

Background Materials Analysts

Staci Bain, Marie Dembowski, Suzy Lambert, Elizabeth Landry, Ashley Nichols, Amanda Nickerson, Jamey Peavler, Julie Shirer

Expert Advisory Panel

The following individuals offered their expertise and feedback on the development of the revised NCTQ Reading Foundations standard.

Linda Diamond (Lead Advisor), *Teaching Reading Sourcebook*Kymyona Burke, ExcelinEd
Antonio Fierro, LETRS
Brandy Gatlin-Nash, University of California, Irvine
Claude Goldenberg, Stanford University
Lakeisha Johnson, Florida Center for Reading Research
Lance Menster, YES Prep Schools
Louisa Moats, LETRS
Amy Murdoch, Mount St. Joseph University
Emily Solari, University of Virginia

Technical Advisory Group

Ed Crowe, TPI-US Kristen Huff, Curriculum Associates Cory Koedel, University of Missouri Wiliam Schmidt, Michigan State University Jason Schweid, Continuous Measurement Amber Wills, Deans for Impact

External Reviewers

Kymyona Burke, ExcelinEd Linda Diamond, *Teaching Reading Sourcebook* Heather Fleming, M.Ed., Director of Programs, The New Mexico Literacy Institute Brandy Gatlin-Nash, University of California, Irvine Claude Goldenberg, Stanford University Amy Murdoch, Mount St. Joseph University Lisette Partelow, Partelow Consulting

NCTQ Leadership

Heather Peske, President

Board of Directors

Thomas Lasley (Chair), Clara Haskell Botstein, James Cibulka, Mariana Courtney, Hannah Dietsch, Chester E. Finn, Jr., Ira Fishman, Bernadeia Johnson, Henry L. Johnson, Craig Kennedy, Arthur Mills IV, Chris Nicastro, John L. Winn

Standard Revision Leadership

Shannon Holston (Chief, Policy & Programs), Graham Drake (Managing Director, Data and Analysis), Hannah Putman (Managing Director, Research), Christie Ellis (Director, Special Programs), Clyde Reese

Data and Technical Management

Jeff Hale, EFA Solutions

Design Team

Katy Hinz, Isabel Levin, Diego Beauroyre, and Amanda Buck, Teal Media

Advocacy and Communications

Ashley Kincaid (Chief, Strategy and Operations) and Nicole Gerber (Director, Strategic Communications)

Project Funders

This report is based on research funded by the following funders. The findings and conclusions contained within are those of the authors and do not necessarily reflect positions or policies of the project funders.

Achelis & Bodman Foundation Arthur & Toni Rembe Rock Barr Foundation Cedar Street Foundation Charles Cahn, Jr. Finnegan Family Foundation J.A. and Kathryn Albertson Family Foundation Laura and John Arnold Longfield Family Foundation Oak Foundation Sid W. Richardson Foundation Sidney A. Swensrud Foundation Spillane Family The Bruni Foundation The Phil Hardin Foundation The Sartain Lanier Family Foundation Thornburg Foundation

William Penn Foundation

Winthrop Rockefeller Foundation

- This figure represents 37% of the fourth grade students in 2021 (based on U.S. Department of Education, National Center for Education Statistics). (2022). Table 203.10. Enrollment in public elementary and secondary schools, by level and grade: Selected years, fall 1980 through fall 2030. Digest of Education Statistics. https://nces.ed.gov/programs/digest/d22/tables/dt22 203.10. asp?current=yes
- 2. National Center for Education Statistics (NCES). (2022). *National Achievement–Level Results*. https://www.nationsreportcard.gov/reading/nation/achievement/?grade=4
- 3. Hernandez, D. J. (2012). Double jeopardy: *How third-grade reading skills and poverty influence highschool graduation*. Annie E. Casey Foundation. Retrieved March 16, 2023 from https://assets.aecf.org/m/resourcedoc/AECF-DoubleJeopardy-2012-Full.pdf
- 4. Tamborini, C. R., Kim, C., & Sakamoto, A. (2015). Education and lifetime earnings in the United States. *Demography*, 52(4), 1383–1407.
- 5. Chapman, C., Laird, J., Ifill, N., & Kewal Ramani, A. (2011). *Trends in High School Dropout and Completion Rates in the United States:* 1972–2009. *Compendium Report.* NCES 2012–006. National Center for Education Statistics. https://nces.ed.gov/programs/dropout/intro.asp#r4
- 6. Chapman, C., Laird, J., Ifill, N., & Kewal Ramani, A. (2011); Harlow, C. W. (2003). Education and Correctional Populations. Bureau of Justice Statistics Special Report. https://bjs.ojp.gov/content/pub/pdf/ecp.pdf
- 7. Chapman, C., Laird, J., Ifill, N., & Kewal Ramani, A. (2011); Harlow, C. W. (2003).
- 8. National Center for Education Statistics (NCES). (2022).
- Torgesen describes this finding in Torgesen, 2004. Specifically, the analyses he describes were based on the proportion of students reaching the "low average level" of word reading skills by second grade. While word reading is not the same as reading comprehension, it is a necessary precursor to comprehension, and measures of word reading fluency (and gains in that fluency) are predictive of broader student reading performance (Smith, J. L. M., Cummings, K. D., Nese, J. F., Alonzo, J., Fien, H., & Baker, S. K. (2014). The relation of word reading fluency initial level and gains with reading outcomes. School Psychology Review, 43(1), 30-40.). For more on studies finding that 90% or more of students can read with proper instruction, see: Torgesen, J. K. (2004). Preventing early reading failure. American Educator, 28(3), 6-9; Torgesen, J. K. (1998). Catch them before they fall: Identification and assessment to prevent reading failure in young children. American Educator, 22(1-2), 32-39. www.aft.org/sites/default/files/periodicals/torgesen.pdf; Lyon, G. R. (1998). Overview of reading and literacy initiatives (Report to Committee on Labor and Human Resources, U.S. Senate). Bethesda, MD: National Institute of Child Health and Human Development, National Institute of Health. https://files.eric.ed.gov/fulltext/ED444128.pdf; Vellutino, F. R., Fletcher, J. M., Snowling, M. J., & Scanlon, D. M. (2004). Specific reading disability (dyslexia): What have we learned in the past four decades? Journal of Child Psychology and Psychiatry, 45(1), 2-40. http://dr-hatfield.com/educ538/docs/Vellutino,+etal+2004.pdf; Al Otaiba, S., & Fuchs, D. (2006). Who are the young children for whom best practices in reading are ineffective? An experimental and longitudinal study. Journal of Learning Disabilities, 39(5), 414-431. A recent blog post summarized the findings of studies that looked at the outcomes of reading instruction, predominantly Tier I and Tier 2 instruction (one study looked at Tier 3, or more intensive, interventions). The conclusion of this review of research affirms that with proper instruction in reading, 95% (if not more) of students can learn to read. (2023). Can 95% of Children Learn to Read? Pedagogy Non Grata. https://www. pedagogynongrata.com/the-95-rule

- EdWeek Research Center. (2020). Early Reading Instruction: Results of a National Survey of K-2 and Elementary Special Education Teachers and Postsecondary Instructors. Washington, DC: Education Week. https://epe.brightspotcdn.com/1b/80/706eba6246599174b0199ac1f3b5/ed-week-reading-instruction-survey-report-final-1.24.20.pdf
- 11. Siegelman, N., Rueckl, J. G., van den Bunt, M., Frijters, J. C., Zevin, J. D., Lovett, M. W., ... & Morris, R. D. (2022). How you read affects what you gain: Individual differences in the functional organization of the reading system predict intervention gains in children with reading disabilities. *Journal of Educational Psychology*, 114(4), 855.
- 12. See, for example, Nicholson, T. (1991). Do children read words better in context or in lists? A classic study revisited. *Journal of Educational Psychology*, 83(4), 444.
- 13. In addition to early reading, NCTQ examines six other aspects of programs' preparation of new elementary teachers: admissions standards including academic aptitude, preparation in mathematics, alignment of content coursework with elementary curricula, training in research-based classroom management strategies, the quality of the clinical (student teaching) experience, and whether teacher preparation programs are contributing to the racial diversification of the teacher workforce.
- 14. For example, the report states that in its review of research since 2000 (when the National Reading Panel report was released), the practice guide "finds new evidence supporting instruction in alphabetics, fluency, and vocabulary, as well as new evidence supporting instruction in additional skills." The practice guide notes multiple findings reinforcing the results of the National Reading Panel study. Foorman, B., Beyler, N., Borradaile, K., Coyne, M., Denton, C. A., Dimino, J., Furgeson, J., Hayes, L., Henke, J., Justice, L., Keating, B., Lewis, W., Sattar, S., Streke, A., Wagner, R., & Wissel, S. (2016). Foundational Skills to Support Reading for Understanding in Kindergarten through 3rd Grade. Educator's Practice Guide. NCEE 2016–4008. What Works Clearinghouse. https://ies.ed.gov/ncee/wwc/Docs/PracticeGuide/wwc_foundationalreading_040717.pdf
- 15. For this analysis, alphabetics falls under the component of "phonics."
- 16. For this analysis, oral language falls under the component for "vocabulary."
- 17. All 10 of these analysts are current or former elementary teachers, six are certified in scientifically based reading techniques, and nine have completed at least a master's degree.
- 18. See the <u>Reading Foundations Technical Report</u> for more information.
- **19**. See the *Reading Foundations Technical Report* for more information about the purposes and participants of the Expert Panel and Technical Advisory Group.
- 20. "Instructional hours" refers to the estimated hours of course time, not semester credit hours. For example, a three-credit-hour course may have three one-hour class meetings each week. Each class meeting would count as one instructional hour. Because courses that meet on multiple occasions each week may have a weekly schedule in the syllabus, adjustments are made in the coding process to ensure that the appropriate number of instructional hours are credited to each entry in the course schedule.
- 21. Rodgers, E., D'Agostino, J. V., Berenbon, R., Johnson, T., & Winkler, C. (2021). Scoring Running Records: Complexities and affordances. *Journal of Early Childhood Literacy*, doi:14687984211027198; D'Agostino, J. V., Rodgers, E., Winkler, C., Johnson, T., & Berenbon, R. (2021). The generalizability of running record accuracy and self-correction scores. *Reading Psychology*, 42(2), 111-130.

- 22. Rodgers, E., D'Agostino, J. V., Berenbon, R., Johnson, T., & Winkler, C. (2021).
- 23. Rodgers, E., D'Agostino, J. V., Berenbon, R., Johnson, T., & Winkler, C. (2021).
- 24. Stouffer, J. (2021). Seeking middle ground: Analyzing running records from the top and bottom. The Reading Teacher, 74(6), 769–784. https://ila.onlinelibrary.wiley.com/doi/pdfdirect/10.1002/trtr.2012; Government of South Australia Department of Education and Children's Services. (2011). Engaging in and exploring running records. https://www.scusd.edu/sites/main/files/file-attachments/decs_running_records_australia.pdf
- 25. Foorman, B., Beyler, N., Borradaile, K., Coyne, M., Denton, C. A., Dimino, J., Furgeson, J., Hayes, L., Henke, J., Justice, L., Keating, B., Lewis, W., Sattar, S., Streke, A., Wagner, R., & Wissel, S. (2016).
- 26. In 2020, the Teacher Prep Review: Program Performance in Early Reading Instruction found phonemic awareness was the least addressed component from 2013 to 2020 (51% in 2020, 43% in 2018, and 35% in 2013).
- 27. At least 50% of programs in Rhode Island and Alaska also adequately address all five components, but due to the small sample sizes of programs in these states (fewer than five programs), they are excluded from this list.
- 28. There were 239 educators who responded to the Open Comment Survey (69% worked in teacher preparation programs, 8% worked in state education agencies, 7% worked as teachers or other positions in school districts, and 6% were educational researchers or faculty not working directly in teacher preparation; the remainder identified as elected officials, people working in advocacy groups, or "other").
- 29. Hindman, A. H., Morrison, F. J., Connor, C. M., & Connor, J. A. (2020). Bringing the science of reading to preservice elementary teachers: Tools that bridge research and practice. *Reading Research Quarterly*, 55, S197–S206; Hudson, A. K., Moore, K. A., Han, B., Wee Koh, P., Binks–Cantrell, E., & Joshi, R.M. (2021). Elementary teachers' knowledge of foundational literacy skills: A critical piece of the puzzle in the science of reading. *Reading Research Quarterly*, 56, S287–S315.
- **30**. This list of states only includes states with at least five teacher preparation programs within this sample.
- 31. Kaufman, D. (2022). In Mississippi, a broad effort to improve literacy is yielding results. *The New York Times*. https://www.nytimes.com/2022/10/06/education/learning/mississippi-schools-literacy.html; Gewertz, C. (2020). States to schools: Teach reading the right way. *Education Week*. https://www.edweek.org/teaching-learning/states-to-schools-teach-reading-the-right-way/2020/02; Mahnken, K. (2022). After steering Mississippi's unlikely learning miracle, Carey Wright steps down. *The 74*. https://www.the74million.org/article/after-steering-mississippis-unlikely-learning-miracle-carey-wright-steps-down/
- **32**. Mississippi Department of Education. (n.d.). Literacy–Based Promotion Act. Retrieved May 8, 2023 from https://www.mdek12.org/OEER/LBPA
- **33.** The Barksdale Reading Institute and the Institutions of Higher Learning. (2015). 2014–15 study of Mississippi teacher preparation for early literacy instruction. https://msreads.org/files/2016/03/31-Mar-2016-Release-STATEWIDE-REPORT-of-TEACHER-PREP.pdf
- **34.** National Center for Education Statistics (NCES). (2022). Mississippi overview. *The Nation's Report Card*. https://www.nationsreportcard.gov/profiles/stateprofile/overview/MS
- **35**. The Read Act was reauthorized in 2019.

- **36.** U.S. Department of Education. Institute of Education Sciences, National Center for Education Statistics. (2021). *Table 204.20. English learner (EL) students enrolled in public elementary and secondary schools, by state: Selected years, fall 2000 through fall 2019. https://nces.ed.gov/programs/digest/d21/tables/dt21 204.20.asp?current=yes*
- 37. U.S. Department of Education, Office of English Language Acquisition. (2022). English Learners: Demographic Trends. Retrieved March 16, 2023 from https://ncela.ed.gov/sites/default/files/2022-09/ELDemographics_20220805_508.pdf
- 38. National Reading Panel (U.S.), National Institute of Child Health, Human Development (U.S.). (2000). Report of the National Reading Panel: Teaching children to read: An evidence-based assessment of the scientific research literature on reading and its implications for reading instruction: Reports of the subgroups. National Institute of Child Health and Human Development, National Institutes of Health. https://www.nichd.nih.gov/sites/default/files/publications/pubs/nrp/Documents/report.pdf
- 39. National Reading Panel (U.S.), National Institute of Child Health, Human Development (U.S.). (2000); August, D., & Shanahan, T. (2010). Response to a review and update on developing literacy in second-language learners: Report of the national literacy panel on language minority children and youth. *Journal of Literacy Research*, 42(3), 341–348. https://journals.sagepub.com/doi/pdf/10.1080/1086296X.2010.503745; Goldenberg, C. (2020). Reading wars, reading science, and English learners. *Reading Research Quarterly*, 55, S131–S144.
- 40. Gersten, R., Baker, S.K., Shanahan, T., Linan-Thompson, S., Collins, P., & Scarcella, R. (2007). Effective Literacy and English Language Instruction for English Learners in the Elementary Grades: A Practice Guide (NCEE 2007-4011). Washington, DC: National Center for Education Evaluation and Regional Assistance, Institute of Education Sciences, U.S. Department of Education. https://ies.ed.gov/ncee/wwc/practiceguide/6; National Academies of Sciences, Engineering, and Medicine. (2017). Promoting the educational success of children and youth learning English: Promising futures. National Academies Press. https://www.nationalacademies.org/our-work/fostering-school-success-for-english-learners-toward-new-directions-in-policy-practice-and-research">https://www.nationalacademies.org/our-work/fostering-school-success-for-english-learners-toward-new-directions-in-policy-practice-and-research
- 41. Gersten, R., Baker, S.K., Shanahan, T., Linan-Thompson, S., Collins, P., & Scarcella, R. (2007).
- 42. National Academies of Sciences, Engineering, and Medicine. (2017).
- 43. Gersten, R., Baker, S.K., Shanahan, T., Linan-Thompson, S., Collins, P., & Scarcella, R. (2007).
- **44**. Hagan Cárdenas Elsa. (2020). *Literacy foundations for English learners: A comprehensive guide to evidence-based instruction.* Paul H. Brookes Publishing Co.
- **45**. Foorman, B., Beyler, N., Borradaile, K., Coyne, M., Denton, C. A., Dimino, J., Furgeson, J., Hayes, L., Henke, J., Justice, L., Keating, B., Lewis, W., Sattar, S., Streke, A., Wagner, R., & Wissel, S. (2016).
- **46.** Massachusetts Department of Elementary and Secondary Education (DESE). (2022). Oral Language. *Mass Literacy*. https://www.doe.mass.edu/massliteracy/literacy-block/oral-language.html
- 47. Gersten, R., Baker, S.K., Shanahan, T., Linan-Thompson, S., Collins, P., & Scarcella, R. (2007). Goldenberg, C. (2020). Reading wars, reading science, and English learners. *Reading Research Quarterly*, 55, S131-S144.
- 48. National Academies of Sciences, Engineering, and Medicine. (2017).

- **49**. National Center for Education Statistics (NCES). (2022). *National Achievement–Level Results*. https://www.nationsreportcard.gov/reading/nation/achievement/?grade=4
- International Dyslexia Association. (2023). Dyslexia basics. https://dyslexiaida.org/dyslexia-basics-2/
- 51. International Dyslexia Association. (2023).
- **52**. Spear–Swerling, L. (2019). Structured literacy and typical literacy practices: Understanding differences to create instructional opportunities. *Teaching Exceptional Children*, *51*(3), 201–211.
- 53. Honig, B., Diamond, L., Gutlohn, L., & Cole, C. L. (2018). Teaching reading sourcebook. CORE.
- 54. Washington, J., & Seidenberg, M. (2021). *Teaching reading to African American children*. https://www.aft.org/ae/summer2021/washington_seidenberg
- **55**. Wolfram, W., & Schilling-Estes, N. (2016). Dialects in the United States: Past, present, and future. In *American English: Dialects and Variation* (97-121), Wiley-Blackwell.
- Brown, M., Sibley, D., Washington, J., Rogers, T., Edwards, J., MacDonald, M., & Seidenberg, M. (2015). Impact of dialect use on a basic component of learning to read. Frontiers in Psychology. https://www.frontiersin.org/articles/10.3389/fpsyg.2015.00196/full
- **57**. Johnson, L., & Gatlin-Nash, B. (2020). Evidence-based practices in the assessment and intervention of language-based reading difficulties among African American learners. *Perspectives on Language and Literacy*.
- 58. Johnson, L., & Gatlin-Nash, B. (2020).
- 59. Johnson, L., & Gatlin-Nash, B. (2020).
- 60. Teacher production estimates are based on data from Title II, available at https://title2.ed.gov/Public/Home.aspx

APPENDIX A

Changes to the Reading Foundations standard

NCTQ updated the Reading Foundations standard to align with the most recent research and to address additional areas of importance based on expert input and the views of the education field. Specifically, these changes include:

• Changes in instructional time required on a component. NCTQ revisited and adjusted the instructional time target for each of the five core components based on input from the Expert Advisory Panel and the Open Comment Survey.

Recommended minimum instructional hours by component

| | Phonemic awareness | Phonics | Fluency | Vocabulary | Comprehension |
|--|----------------------|--------------|--------------|--------------|------------------|
| Expert panel | 7 hours | 8 hours | 4 hours | 6 hours | 9 hours |
| Survey (average) | 6.2 hours | 7.1 hours | 5.1 hours | 6.3 hours | 7.4 hours |
| Survey (modal response) | 4 to 5; 6 to 7 hours | 8 to 9 hours | 4 to 5 hours | 6 to 7 hours | 10 or more hours |
| Reading Foundations instructional hour target | 7 hours | 8 hours | 4 hours | 6 hours | 9 hours |

The resulting minimums vary by component and exceed the minimums under the previous version of the standard, which required only two class sessions (roughly three hours) for each component.

• Changes in Practice/Application expectations. Previous iterations of the standard combined "tests," "assignments," and "practice" under Demonstration of Knowledge. In the revised standard, Practice/Application is separated from the newly titled Objective Measures of Knowledge section (tests/quizzes and graded assignments) to better focus on

the importance of programs providing candidates with opportunities to apply teaching the five core components in actual or simulated classrooms. This change received broad support in the open comment survey, in which 80% of respondents agreed that it was necessary to separate these two instructional approaches and that a focus on practice is a necessary component of learning how to teach reading.

• Deduction of a letter grade for contradictory approaches. Because the content of required reading courses does not always reflect the current research highlighted by the National Reading Panel and What Works Clearinghouse, the revised standard calls out instances of teaching practices that run counter to scientifically based reading instruction. When programs are found to provide instruction on four or more of the contrary practices, they lose a letter grade.

The revised standard also focuses on the importance of teacher candidates learning additional teaching techniques and assessment strategies to support struggling readers, English language learners, and students who speak language varieties other than mainstream English. While this part of the standard is not graded, the analysis provides programs with feedback on their coverage of these three components.

Overall, these revisions aim to provide a more detailed and comprehensive assessment of the quality of reading instruction programs provide. More information on these changes and the process through which they were made can be found in the *Reading Foundations Technical Report*.

Why and how these changes were made

The purpose of the revision process was to update the research basis of the standard, revisit the depth of instruction necessary for effective teacher preparation, and provide a more holistic view of preparation in reading instruction. Additionally, the standard was revised to highlight practices supporting struggling readers, English language learners, and speakers of language varieties other than mainstream English; to recognize the damage incurred to students by content contrary to research–based practices; and to provide more in–depth and explicit feedback to elementary teacher preparation programs.

The Reading Foundations standard was revised through a process including multiple points of external engagement, including soliciting evidence from panels of reading and technical experts (see acknowledgements for list of experts), inviting public comment from stakeholders via an Open Comment Survey (which garnered 239 responses, 80% coming from teacher preparation programs), and examining available information on several teacher licensure assessments to valdidate recommendations.

WORK SESSION AUGUST 21, 2024

ATTACHMENT 2

The Expert Advisory Panel provided NCTQ with feedback on the content of the Reading Foundations standard. The panel met three times prior to finalizing methodology decisions, including a launch meeting to review results from the previous Early Reading standard and examples of exemplary materials, a meeting on the core components of reading instruction, and a meeting focused on topics related to supporting a range of learners. The Technical Advisory Group, consisting of education policy, statistics, and psychometric experts, also met several times during the standard revision process to advise NCTQ on the analysis and scoring process, and to ensure strong inter-rater reliability and methodological practices.

NCTQ conducted an Open Comment Survey of subject–matter experts and stakeholders to gather feedback on the preparation of teacher candidates to teach reading. Nearly 240 educators responded, including those working in teacher preparation programs, state education agencies, school districts, and educational researchers or faculty not working directly in teacher preparation. Of the respondents, 89% agreed or strongly agreed it is important for teacher preparation programs to meet the NCTQ claim. Further, when asked if the process NCTQ had designed (i.e., examining syllabi and background materials for evidence of the instructional approaches) would provide useful insights into the quality of teacher preparation programs, approximately 86% of respondents agreed or strongly agreed.

For more information on the revisions process for the Reading Foundations standard, including the results of the Open Comment Survey, see the full <u>Reading Foundations</u> <u>Technical Report</u>.

APPENDIX B

Methodology in brief

Analysis for the Reading Foundations standard began by determining the programs to be included. Both undergraduate and graduate (or post-baccalaureate) elementary teacher preparation programs that lead to initial licensure at all public institutions and private institutions that have an annual production of at least 10 elementary teachers were eligible for inclusion. This resulted in a universe of 1,146 programs housed within 959 institutions that qualified for analysis. Alternate-route programs are not included in the sample for this iteration of the Reading Foundations standard. Because not all programs provided sufficient documentation to be rated, the final sample includes 693 programs housed in 578 institutions of higher education, and is inclusive of programs in all 50 states and the District of Columbia.

Once the sample was determined, a team of analysts used course catalogs to identify the required coursework for each elementary program. Course titles and descriptions were used to identify all courses that addressed reading instruction. Next, NCTQ sent a request for course material to each program in the universe of programs. Programs were asked to identify any missing courses to ensure that no reading courses were excluded. The majority of syllabi analyzed were from fall 2018 to fall 2022, although some programs submitted materials from spring 2023 in response to the preliminary analysis. In total, collecting evidence, analyzing materials, and conducting the preliminary review process with all programs took 12 months to complete.

When material was received, course-level analysis relied on two sources of data:

- Syllabi for required courses that address reading instruction, including ancillary materials such as lecture slides or assignment descriptions.
- Background materials, such as textbooks or articles for required courses that address reading instruction.

Expert analysts reviewed each course for its coverage of each of the five components of scientifically based reading instruction, and three components focused on supporting a range of learners. Course analysis for each component and for each student group relied on evidence that the program teaches the components based on four instructional approaches:

- Use of <u>instructional hours</u> to address each component, as specified by the lecture schedule, as well as course time spent on content contrary to research-based practices.
 - Phonemic Awareness = at least 7 hours
 - Phonics = at least 8 hours
 - Fluency = at least 4 hours
 - Vocabulary = at least 6 hours
 - Comprehension = at least 9 hours
- Requirements for candidates to demonstrate knowledge of individual components through <u>objective measures of knowledge</u> (tests, quizzes, or written, graded assignments).
- Requirements for <u>practice/application</u> of instruction or assessment on individual components.
- Requirements for <u>background materials</u> (e.g., textbooks, videos, articles), described further below.

After expert analysts reviewed course syllabi for the first three instructional approaches—instructional hours, objective measures of knowledge, and practice opportunities—13% of programs were then randomly selected for evaluation by a second analyst to assess the frequency of scoring variances. The process and the results are described in detail in the *Reading Foundations Technical Report*.

Another team of expert analysts separately analyzed the fourth instructional approach, required <u>background materials</u>. These materials were identified using the *required reading* section of course syllabi (or university bookstore information, in instances where course material is absent from syllabi). Reviewers analyzed each material for its coverage of the science of reading and attention to supporting a range of learners. The process of reviewing a book followed these steps:

- The reviewer determines if the text is "comprehensive" (covers all five of the
 components), "specialized" (designed to cover only a subset of components), or
 "synopsis" (brief or introductory documents describing the components without
 sufficient depth to be used alone).
- The reviewer determines if the content presents each component in light of the science, absent of unproven practice, and advances a depth of knowledge about not only how students learn to read, but also specifically how to teach students to read.
- References were also checked for primary sources, researchers, and trusted peer-reviewed journals that present the consensus around the science of reading.

Each of the five core components (phonemic awareness, phonics, fluency, vocabulary, comprehension) was assessed separately for all four instructional approaches within each course, earning up to three points per approach, or 12 points per component.

Component-level scoring (across courses)

Component-level points

| Instructional Approach | o | 1 | 2 | 3 |
|--|---|--|---|--|
| Instructional Hours | Number of hours summed across courses divided by the threshold times three points (capped at three points) | | | |
| Objective Measures of Knowledge | No tests/ quizzes AND no graded written assignments | Part of one graded written assignment | One graded written assignment | At least one test/ quiz OR more than one graded written assignment |
| Practice/Application | No practice/ application session | Part of one practice/application session | One practice/ application session | More than one practice/application session |
| Background Materials (averaged within and then across courses) | Unacceptable materials earn a zero; acceptable materials earn a three. All materials on a component are averaged within a course and then across courses. | | | |

The sum of the course-level scores was used to produce a program-level score for each component (with a maximum of 12 points per component). To earn credit for a component, the program must have earned eight of 12 available points (or 67%). The five program-level component scores were used to determine the overall grade.

Example of scoring: Phonemic awareness

| Instructional approach | Component analysis (across all courses) | Points earned |
|--|---|---------------|
| Instructional Hours (based on a proportion of the total hours needed to meet the target) | 4 hours out of the 7 hours needed to meet target (4 hours ÷ 7 hours x 3 points) | 1.7 |
| Objective Measures of Knowledge | One graded written assignment | 2 |
| Practice/Application | One practice session | 2 |
| Background Materials (averaged within and then across courses) | One textbook, two supplementary materials: all deemed acceptable | 3 |
| Total points earned for this component | | 8.7 |

Grading for a program was based on the number of reading components for which the program received credit. Each component (phonemic awareness, phonics, fluency, vocabulary, and comprehension) was equally weighted.

Grading rules

| Program grade | Grading rule: Receive eight or more points for |
|---------------|--|
| A+ | Programs earn an A, meet a higher point threshold for each component (an average of 10 points across components), and teach no practices contrary to the science of reading. |
| A | All five of the five core components of scientifically based reading instruction, and do not teach more than three practices contrary to the science of reading. |
| В | Four of the five core components of scientifically based reading instruction OR all five core components but teach four or more practices contrary to the science of reading. |
| С | Three of the five core components of scientifically based reading instruction OR four core components but teach four or more practices contrary to the science of reading. |
| D | Two of the five core components of scientifically based reading instruction OR three core components but teach four or more practices contrary to the science of reading. |
| F | One or none of the five core components of scientifically based reading instruction OR two core components but teach four or more practices contrary to the science of reading. |

Content contrary to research-based practices

During the analysis of course materials, NCTQ expert analysts also collected whether there was evidence that a program teaches any of nine identified practices contrary to the science of reading. If a program teaches four or more contrary practices, its letter grade was reduced by one grade.

Practices contrary to research-based practices include the following:

- Three-cueing systems
- Running records
- · Miscue analysis
- Balanced literacy models
- · Guided reading

- Reading Workshop
- · Leveled texts
- · Embedded/implicit phonics
- Developmental Reading Assessment (DRA), Informal Reading Inventory (IRI), or Qualitative Reading Inventory (QRI)

Before NCTQ published program scores, programs privately received their scores with detailed feedback on the findings from each course and had at least two weeks to respond to provide any additional evidence, clarifications, or corrections.

Supporting a range of learners

To evaluate whether prep programs provide instruction on how to support a range of learners (struggling readers, English language learners, and students who speak English language varieties), analysts looked for at least two <u>instructional hours</u> dedicated to each learner group, as well as evidence the program uses research-based <u>background materials</u>, uses <u>objective measures of knowledge</u> to assess candidates' knowledge of how to use specific approaches to help these student groups learn how to read, and provides <u>practice/application</u> opportunities related to each group of students. Programs can earn up to two points for each instructional approach for each group of students (for a total of eight points for each student group). These areas are not included in a program's grade, but programs received detailed feedback on the evidence of their attention to supporting a range of learners.

For more information on the methodology for the Reading Foundations standard, see the full Reading Foundations Technical Report.

WORK SESSION AUGUST 21, 2024

ATTACHMENT 2

ENDNOTES (APPENDIX B)

Ten programs are not included in the sample because of changes in program structure, limitation in the data they provided, or late submissions of materials (for the latter group, scores will be posted at a later date).

APPENDIX C

Content contrary to research-based practices

One important change in the Reading Foundations standard is that if programs teach four or more practices contrary to research-based practices, they lose a letter grade from their overall score. The nine practices were identified based on research and input from the Expert Advisory Panel. Many contrary practices are grounded in a well-intentioned, but ultimately false, understanding of how children learn to read.

Three-cueing systems

Also known as the structure/meaning/visual system (SMV), three-cueing describes the support for early word recognition that "[relies] on a combination of of semantic, syntactic, and graphophonic cues simultaneously to formulate an intelligent hypothesis about a word's identity." In other words, children who encounter a word they do not recognize are instructed to use one of three strategies: "guess what the word might be" based on context; "look at the picture to help guess what the word might be;" and "look at the first letter to help guess what the word might be," and if the guess makes sense, then check to see if it "looks right." Despite widespread use by K-2 and elementary special education teachers, reading experts discourage guessing techniques because they represent lost opportunities to help children practice decoding," and represent an ineffective strategy for reading advanced texts."

Miscue analysis

Grounded in the idea students use clues, or "cues," to determine what a word is, miscue analysis is a practice employed by teachers to "uncover the strategies children use in their reading" when reading differs from written text (e.g., substituting "pony" for "horse"), v primarily to help students focus on context rather than letter patterns and positions. vi Due to the focus on "cues," this practice distracts from helping students decode (or pronounce) the words on the page.

Running records

Running records is an assessment in which a teacher observes a student's oral reading of a passage and records the number of errors to calculate the accuracy level. Vii Intended in part as a formative assessment, running records are used to identify student's "reading level," to determine appropriate student groupings, and to monitor student growth. Viii Though widely popular, studies on running records show they produce inconsistent results based on both teachers' accuracy in scoring and students' accuracy in reading different texts. Further, Running Records assessments may include the use of miscue analysis to determine why students make errors, which is often rooted in three-cueing models of understanding reading. X

Balanced literacy models

Balanced literacy models represent an approach to reading characterized by the use of readalouds, shared readings, small group guided reading, and independent reading, typically relying heavily on leveled books and focusing on meaning-based instruction. *i In contrast to structured literacy, balanced literacy models often eschew the explicit, systematic teaching of phonemic awareness and phonics skills, demonstrating a preference for approaches emphasizing context clues, like three-cueing. *ii Widely used balanced literacy approaches such as *Units of Study***iii have been found to devote too little time to phonics, use three-cueing or SMV strategies, fail to systematically build knowledge, and do not provide support for English language learners. *xiv Similarly, Fountas and Pinnell Classroom, another balanced literacy-based program, received low marks for its inaccurate leveling system; lack of research base or evidenced-based explanation of the sequence for teaching phonics; and inadequate time devoted to phonological awareness, phonics, and fluency (among other areas). *xv

Guided reading

Guided reading is an approach to reading instruction where students are grouped according to their "reading level" and asked to read appropriately "leveled texts." xvi Instruction focuses on reading for meaning, and the practice typically promotes using cues (including background knowledge and pictures), English syntax, and visual information (including sound–symbol relationships). xvii Research on guided reading shows it is not as effective as explicit instruction, particularly for phonological decoding and comprehension. xviii Additionally, English language learners have consistently shown greater gains with explicit instruction compared to balanced literacy approaches relying on guided reading. xix

Reading Workshop

Units of Study is commonly called, "Reading Workshop," and is a balanced literacy curriculum characterized by the use of read-alouds, small group guided reading, shared readings, and independent reading. Evaluations have found the program lacking systematic and explicit instruction in all foundational skills, "x with one expert noting, "many activities designed to practice deepening reading ability were designated as optional." Like other balanced literacy models, Reading Workshop uses cueing systems for solving unknown words, encouraging students to focus on the initial sounds of words and meaning cues rather than explicitly teaching decoding strategies.

Leveled text

Leveled texts are "reading materials that represent a progression from more simple to more complex and challenging texts." These texts are often used based on the premise that student learning should primarily occur using texts at their "instructional level," which they read with a high (but not perfect) level of accuracy with some support from a teacher. **xiii* The use of leveled texts is critiqued because they "do not follow a scope and sequence of decoding skill instruction," do not provide enough repeat exposure to phonics patterns to allow novice readers to practice them, and encourage word memorization rather than teaching decoding techniques. **xxiv* Further, studies have found students may learn more by reading texts above their instructional level, while leveled readers limit students' exposure to rich content or complex language. **xxv*

Embedded/implicit phonics

In contrast to explicit (or synthetic) phonics instruction, embedded or implicit phonics instruction links the reading of children's literature or texts for the purpose of developing meaning, xxvi where "sound/spelling correspondence are inferred from reading whole words and introduced as students encounter them in text." xxvii In comparing the effectiveness of systematic phonics instruction to embedded phonics instruction, studies found students learn more through systematic phonics instruction. xxviii

Development Reading Assessment (DRA), Informal Reading Inventory (IRI), or Qualitative Reading Inventory (QRI)

Part of teaching reading is diagnosing students' progress and identifying reading difficulties through the use of various assessments. Unfortunately, some ineffective assessments are commonly used and taught, including informal reading inventory (IRA), qualitative reading inventory (QRI), and developmental reading assessments (DRA). These assessments are typified by a student reading orally from a passage (DRA), or a list (IRI, QRI), while an instructor tracks student errors. **xix** Informal reading inventories have low reliability when tracking student performance, **xx** and the DRA has little evidence supporting its validity or reliability. **xxii** The reliability of a test matters—in the case of running records, two teachers can assess the same student and report different measures of performance**xxiii*—and students' performance on the IRI can vary wildly across texts considered to be the same "level." **xxxiiii* Though QRIs have a higher level of reliability, student performance on the QRI is more related to listening comprehension than decoding ability. **xxxiv**

For more information on these contrary practices, see the full <u>Reading Foundations</u> <u>Technical Report</u>.

ENDNOTES (APPENDIX C)

- Petscher, Y., Cabell, S. Q., Catts, H. W., Compton, D. L., Foorman, B. R., Hart, S. A., ... & Wagner, R. K. (2020). How the science of reading informs 21st century education. *Reading Research Quarterly*, 55, S267–S282.
- ii. Hempenstall, K. (2006). The three-cueing model: Down for the count? Education News.
- iii. Petscher, Y., Cabell, S. Q., Catts, H. W., Compton, D. L., Foorman, B. R., Hart, S. A., ... & Wagner, R. K. (2020).
- iv. Foorman, B., Beyler, N., Borradaile, K., Coyne, M., Denton, C. A., Dimino, J., Furgeson, J., Hayes, L., Henke, J., Justice, L., Keating, B., Lewis, W., Sattar, S., Streke, A., Wagner, R., & Wissel, S. (2016). Foundational skills to support reading for understanding in kindergarten through 3rd grade (NCEE 2016-4008). Washington, DC: National Center for Education Evaluation and Regional Assistance (NCEE), Institute of Education Sciences, U.S. Department of Education. https://ies.ed.gov/ncee/wwc/PracticeGuide/21
- v. Hempenstall, K. (2006).
- vi. Hempenstall, K. (2006).
- vii. Rodgers, E., D'Agostino, J. V., Berenbon, R., Johnson, T., & Winkler, C. (2021). Scoring Running Records: Complexities and affordances. *Journal of Early Childhood Literacy*, doi: 14687984211027198; D'Agostino, J. V., Rodgers, E., Winkler, C., Johnson, T., & Berenbon, R. (2021). The generalizability of Running Record accuracy and self-correction scores. *Reading Psychology*, 42(2), 111-130.
- viii. Rodgers, E., D'Agostino, J. V., Berenbon, R., Johnson, T., & Winkler, C. (2021).
- ix. Rodgers, E., D'Agostino, J. V., Berenbon, R., Johnson, T., & Winkler, C. (2021).
- x. Stouffer, J. (2021). Seeking middle ground: Analyzing running records from the top and bottom. The Reading Teacher, 74(6), 769-784. https://ila.onlinelibrary.wiley.com/doi/pdfdirect/10.1002/trtr.2012; Government of South Australia Department of Education and Children's Services. (2011). Engaging in and exploring running records. https://www.scusd.edu/sites/main/files/file-attachments/decs_running_records_australia.pdf
- xi. Robinson, L., Lambert, M. C., Towner, J., & Caros, J. (2016). A comparison of direct instruction and balanced literacy: An evaluative comparison for a pacific northwest rural school district. Reading Improvement, 53(4), 147–164; Bingham, G. E., & Hall–Kenyon, K. M. (2013). Examining teachers' beliefs about and implementation of a balanced literacy framework. Journal of Research in Reading, 36(1), 14–28.
- xii. Robinson, L., Lambert, M. C., Towner, J., & Caros, J. (2016).
- xiii. Schwartz, S. (2021). New curriculum review gives failing marks to two popular reading programs. *Education Week*. Retrieved November 3, 2022 from https://www.edweek.org/teaching-learning/newcurriculum-review-gives-failing-marks-to-popular-early-reading-programs/2021/11
- xiv. Adams, M. J., Fillmore, L. W., Goldenberg, C., Oakhill, J., Paige, D. D., Rasinski, T., & Shanahan, T. (2020). *Comparing reading research to program design: An examination of Teachers College Units of Study.* Student Achievement Partners, 1–64; Schwartz, S. (2021).
- xv. Schwartz, S. (2021).

ENDNOTES (APPENDIX C)

- xvi. Denton, C. A., Fletcher, J. M., Taylor, W. P., Barth, A. E., & Vaughn, S. (2014). An experimental evaluation of guided reading and explicit interventions for primary-grade students at-risk for reading difficulties. *Journal of Research on Educational Effectiveness*, 7(3), 268–293.
- xvii. Denton, C. A., Fletcher, J. M., Taylor, W. P., Barth, A. E., & Vaughn, S. (2014).
- xviii. Denton, C. A., Fletcher, J. M., Taylor, W. P., Barth, A. E., & Vaughn, S. (2014).
- xix. Kamps, D., Abbott, M., Greenwood, C., Arreaga-Mayer, C., Wills, H., Longstaff, J., ... & Walton, C. (2007). Use of evidence-based, small-group reading instruction for English language learners in elementary grades: Secondary-tier intervention. *Learning Disability Quarterly*, 30(3), 153–168.
- xx. EdReports. (2018). *Units of Study*. https://www.edreports.org/reports/detail/units-ofstudy-2018/kindergarten/gateway-one
- xxi. Fillmore, L. W., Goldenberg, C., Oakhill, J., Paige, D. D., Rasinski, T., & Shanahan, T. (2020).
- xxii. Brabham, E. G., & Villaume, S. K. (2002). Leveled text: The good news and the bad news. Questions and Answers. *The Reading Teacher*, 55(5), 438-442.
- xxiii. Shanahan, T. (2020). Limiting children to books they can already read: Why it reduces their opportunity to learn. *American Educator*, 44(2), 13.
- xxiv. Moats, L. C. (2017). Can prevailing approaches to reading instruction accomplish the goals of RTI? *Perspectives on Language and Literacy*, 43(3), 15–22.
- xxv. Shanahan, T. (2020); Brown, L. T., Mohr, K. A., Wilcox, B. R., & Barrett, T. S. (2018). The effects of dyad reading and text difficulty on third-graders' reading achievement. *The Journal of Educational Research*, 111(5), 541–553; Morgan, A., Wilcox, B. R., & Eldredge, J. L. (2000). Effect of difficulty levels on second grade delayed readers using dyad reading. *The Journal of Educational Research*, 94(2), 113–119.
- xxvi. Roberts, T. A., & Meiring, A. (2006). Teaching phonics in the context of children's literature or spelling: Influences on first-grade reading, spelling, and writing and fifth-grade comprehension. *Journal of Educational Psychology*, 98(4), 690.
- xxvii.Read Naturally. (2022). *Phonics*. https://www.readnaturally.com/research/5-components-of-reading/phonics
- xxviii. Roberts, T. A., & Meiring, A. (2006); Chall, J. S. (1983). Learning to read: The great debate. New York: McGraw-Hill; Torgeson, J., Wagner, R., Rashotte, C., Rose, E., Lindamood, P., Conway, T., & Garven, C. (1999). Preventing reading failure in young children with phonological processing disabilities: Group and individual responses to instruction. Journal of Educational Psychology, 91, 579–593; Center, Y., Freeman, L., & Robertson, G. (2001). The relative effect of a code-oriented and meaning-oriented early literacy program on regular and low progress Australian students in Year 1 classrooms which implement reading recovery. International Journal of Disability, Development and Education, 48, 207–232; Christensen, C. A., & Bowey, J. A. (2005). The efficacy of orthographic rime, grapheme-phoneme correspondence, and implicit phonics approaches to teaching decoding skills. Scientific Studies of Reading, 9, 327–349.
- xxix. Rodgers, E., D'Agostino, J. V., Berenbon, R., Johnson, T., & Winkler, C. (2021). Scoring Running Records: Complexities and affordances. *Journal of Early Childhood Literacy*, doi:14687984211027198; D'Agostino, J. V., Rodgers, E., Winkler, C., Johnson, T., & Berenbon, R. (2021). The generalizability of Running Record accuracy and self-correction scores. *Reading Psychology*, 42(2), 111-130.

WORK SESSION AUGUST 21, 2024

ATTACHMENT 2

ENDNOTES (APPENDIX C)

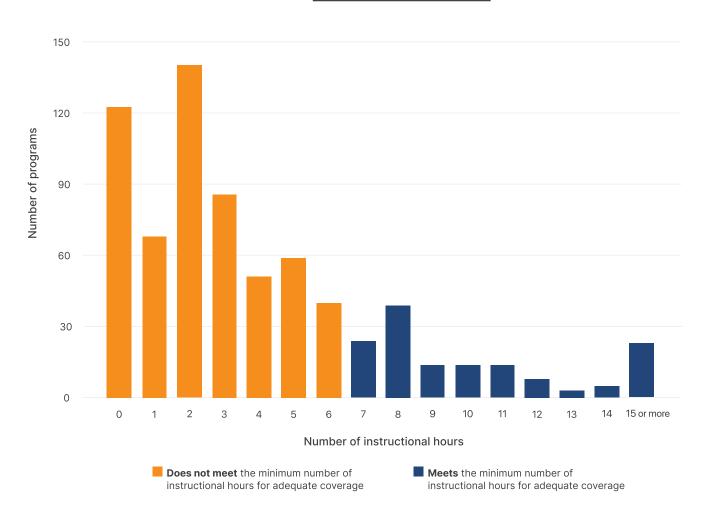
- xxx. Rodgers, E., D'Agostino, J. V., Berenbon, R., Johnson, T., & Winkler, C. (2021); Burns, M. K., Pulles, S. M., Maki, K. E., Kanive, R., Hodgson, J., Helman, L. A., ... & Preast, J. L. (2015). Accuracy of student performance while reading leveled books rated at their instructional level by a reading inventory. *Journal of School Psychology*, 53(6), 437-445.
- xxxi. Altman, R. (2019). The Research Behind the DRA3 Benchmark Assessments Overview. Pearson. https://www.pearsonassessments.com/content/dam/school/global/clinical/us/assets/dra3/the-researchbehind-the-dra3-benchmark-assessments-whitepaper.pdf
- xxxii. Keenan, J. M., & Meenan, C. E. (2014). Test differences in diagnosing reading comprehension deficits. *Journal of Learning Disabilities*, 47(2), 125–135.
- xxxiii. Burns, M. K., Pulles, S. M., Maki, K. E., Kanive, R., Hodgson, J., Helman, L. A., ... & Preast, J. L. (2015).
- xxxiv. Keenan, J. M., Betjemann, R. S., & Olson, R. K. (2008). Reading comprehension tests vary in the skills they assess: Differential dependence on decoding and oral comprehension. *Scientific Studies of Reading*, 12(3), 281–300.

APPENDIX D

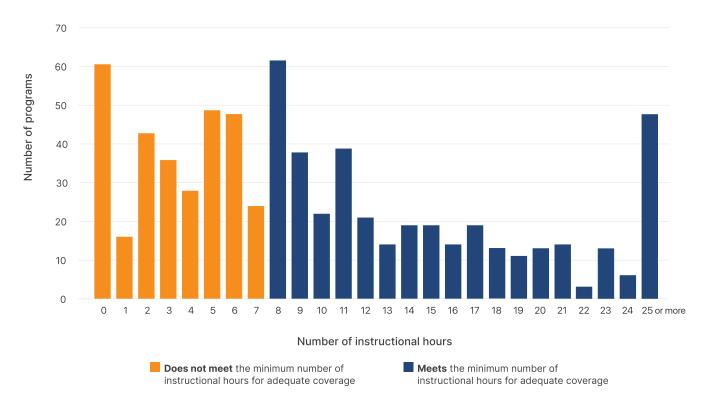
Instructional hours by component

The graphs below detail the instructional hours programs dedicate to each component. Columns in orange include the number of programs that dedicate instructional hours that are below the target, while the blue columns indicate the number of programs that either meet or exceed the instructional hours target for that component.

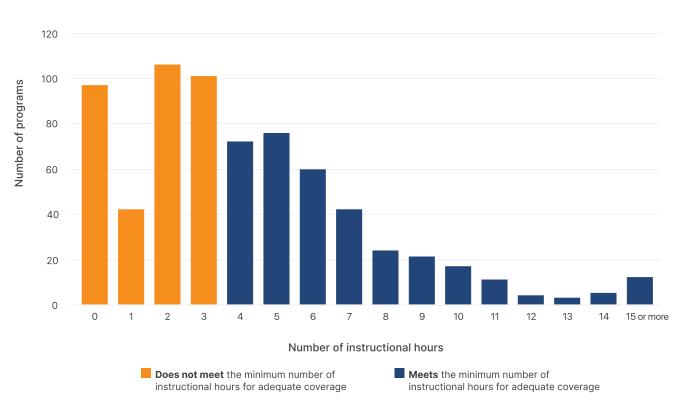
Number of instructional hours programs dedicate to phonemic awareness



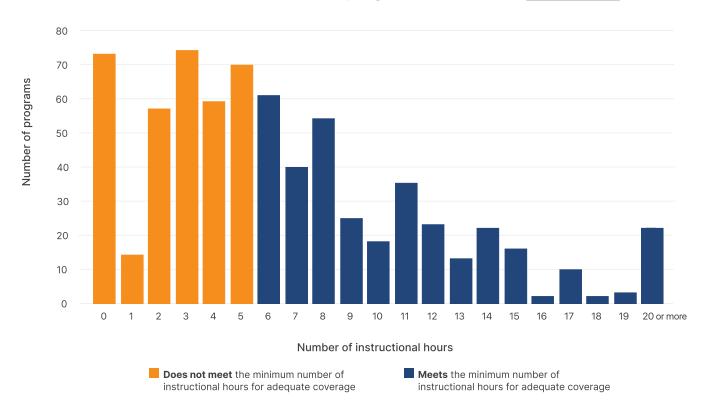
Number of instructional hours programs dedicate to phonics



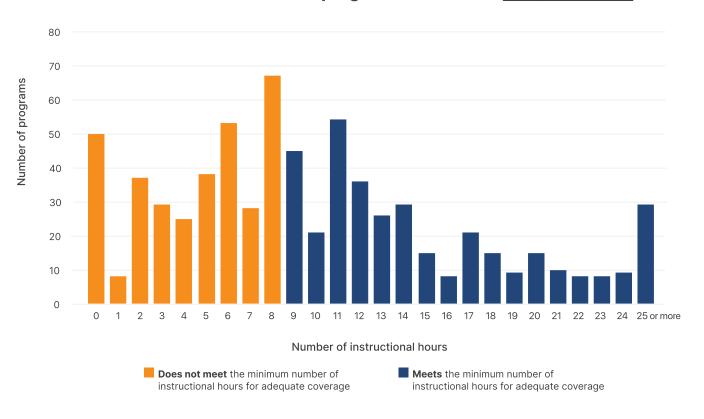
Number of instructional hours programs dedicate to <u>fluency</u>



Number of instructional hours programs dedicate to vocabulary



Number of instructional hours programs dedicate to comprehension



APPENDIX E

Institutions that refused to participate

While 578 institutions cooperated with NCTQ and made their preparation materials available for review or NCTQ was able to obtain public materials, 376 institutions chose not to make their materials available for review. These non-cooperating institutions, located in 44 states and the District of Columbia, prepare an estimated 16,000 elementary teachers each year, most of whom will go on to teach in public schools.

It is the position of NCTQ that when colleges and universities choose to open a program to prepare the next generation of teachers, they are, in effect, entering into an agreement with not only the state, which approves the program to operate, but also the school districts that hire teachers, the aspiring teachers who enroll in the program, and the students who will learn from teachers prepared by these programs and expect them to be experts in the field. For this reason, NCTQ believes preparation programs have a moral obligation, as well as a legal one, to disclose to their stakeholders how they are preparing aspiring teachers and whether preparation aligns with the best available research-based practices.

The following is a list of institutions that were invited to submit materials to the *Teacher Prep Review* but refused to do so explicitly, by providing heavily redacted materials, or through unresponsiveness.

| State | Institution | Туре |
|------------|-------------------------------------|---------|
| Alabama | Athens State University | Public |
| Alabama | Auburn University at Montgomery | Public |
| Alabama | Birmingham Southern College | Private |
| Alabama | University of Alabama at Birmingham | Public |
| Alabama | University of Mobile | Private |
| Alabama | University of North Alabama | Public |
| Arizona | Grand Canyon University | Private |
| Arizona | Ottawa University - Surprise | Private |
| Arizona | University of Phoenix | Private |
| Arkansas | Harding University | Private |
| California | Alliant International University | Private |
| California | Azusa Pacific University | Private |
| California | Biola University | Private |
| California | California Baptist University | Private |
| California | California Lutheran University | Private |

| State | Institution | Туре |
|----------------------|--|---------|
| California | Concordia University Irvine | Private |
| California | Dominican University of California | Private |
| California | Fresno Pacific University | Private |
| California | Hope International University | Private |
| California | Loyola Marymount University | Private |
| California | Mount St. Mary's University | Private |
| California | National University | Private |
| California | Notre Dame de Namur University | Private |
| California | Saint Mary's College of California | Private |
| California | Simpson University | Private |
| California | University of California - Berkeley | Public |
| California | University of Massachusetts Global | Private |
| California | University of San Diego | Private |
| California | University of San Francisco | Private |
| California | University of the Pacific | Private |
| California | Vanguard University of Southern California | Private |
| Colorado | Regis University | Private |
| Colorado | University of Denver | Private |
| Connecticut | Fairfield University | Private |
| Connecticut | Quinnipiac University | Private |
| Connecticut | Sacred Heart University | Private |
| Connecticut | University of Hartford | Private |
| Connecticut | University of Saint Joseph | Private |
| Delaware | Wilmington University | Private |
| District of Columbia | Catholic University of America | Private |
| District of Columbia | George Washington University | Private |
| District of Columbia | Howard University | Private |
| Florida | Florida Southern College | Private |
| Florida | Saint Leo University | Private |
| Florida | Stetson University | Private |
| Florida | University of Miami | Private |
| Florida | University of Tampa | Private |
| Florida | Warner University | Private |
| Georgia | Berry College | Private |
| Georgia | Brenau University | Private |
| Georgia | Covenant College | Private |
| Georgia | Mercer University | Private |
| Georgia | Piedmont University | Private |
| Georgia | Reinhardt University | Private |
| Georgia | Shorter University | Private |
| Hawaii | Chaminade University of Honolulu | Private |
| Idaho | Brigham Young University - Idaho | Private |
| | | |

| | | I_ |
|----------|--|---------|
| State | Institution Augustana College | Туре |
| Illinois | Augustana College | Private |
| Illinois | Aurora University | Private |
| Illinois | Benedictine University | Private |
| Illinois | Blackburn College | Private |
| Illinois | Bradley University | Private |
| Illinois | Concordia University Chicago | Private |
| Illinois | DePaul University | Private |
| Illinois | Dominican University | Private |
| Illinois | Eastern Illinois University | Public |
| Illinois | Elmhurst University | Private |
| Illinois | Illinois State University | Public |
| Illinois | Knox College | Private |
| Illinois | Lewis University | Private |
| Illinois | McKendree University | Private |
| Illinois | Millikin University | Private |
| Illinois | Monmouth College | Private |
| Illinois | National Louis University | Private |
| Illinois | North Central College | Private |
| Illinois | North Park University | Private |
| Illinois | Northern Illinois University | Public |
| Illinois | Quincy University | Private |
| Illinois | Rockford University | Private |
| Illinois | Roosevelt University | Private |
| Illinois | Saint Xavier University | Private |
| Illinois | Southern Illinois University | Public |
| Illinois | Edwardsville Trinity Christian College | Private |
| Illinois | University of Chicago | Private |
| Illinois | Western Illinois University | Public |
| Illinois | Wheaton College | Private |
| Indiana | Bethel University | Private |
| Indiana | Butler University | Private |
| Indiana | Franklin College | Private |
| Indiana | Goshen College | Private |
| Indiana | Grace College and Theological Seminary | Private |
| Indiana | Indiana Wesleyan University | Private |
| Indiana | Saint Mary's College | Private |
| Indiana | Taylor University | Private |
| Indiana | University of Indianapolis | Private |
| Indiana | University of Saint Francis | |
| Indiana | Valparaiso University | Private |
| | Briar Cliff University | Private |
| lowa | | Private |

| State | Institution | Туре |
|---------------|-------------------------------------|---------|
| lowa | Buena Vista University | Private |
| lowa | Central College | Private |
| lowa | Clarke University | Private |
| lowa | Coe College | Private |
| lowa | Dordt University | Private |
| lowa | Graceland University | Private |
| lowa | Grand View University | Private |
| lowa | Iowa Wesleyan University | Private |
| lowa | Luther College | Private |
| lowa | Morningside University | Private |
| lowa | Mount Mercy University | Private |
| lowa | Northwestern College | Private |
| lowa | Simpson College | Private |
| lowa | St. Ambrose University University | Private |
| lowa | of Dubuque | Private |
| lowa | Upper Iowa University | Private |
| lowa | Wartburg College | Private |
| lowa | William Penn University | Private |
| Kansas | Baker University | Private |
| Kansas | Benedictine College | Private |
| Kansas | Emporia State University | Public |
| Kansas | Friends University | Private |
| Kansas | Kansas State University | Public |
| Kansas | MidAmerica Nazarene University | Private |
| Kansas | Ottawa University | Private |
| Kansas | Southwestern College | Private |
| Kansas | Sterling College | Private |
| Kansas | University of Saint Mary | Private |
| Kentucky | Alice Lloyd College | Private |
| Kentucky | Asbury University | Private |
| Maine | Husson University | Private |
| Maine | University of Maine at Machias | Public |
| Maine | University of Maine at Presque Isle | Public |
| Maine | University of New England Loyola | Private |
| Maryland | University Maryland Mount St. | Private |
| Maryland | Mary's University Notre Dame of | Private |
| Maryland | Maryland University Stevenson | Private |
| Maryland | University | Private |
| Massachusetts | American International College | Private |
| Massachusetts | Assumption University | Private |
| Massachusetts | Brandeis University | Private |
| | | |

| State | Institution | Туре |
|---------------|---------------------------------------|---------|
| Massachusetts | Cambridge College | Private |
| Massachusetts | Clark University | Private |
| Massachusetts | Curry College | Private |
| Massachusetts | Emmanuel College | Private |
| Massachusetts | Endicott College | Private |
| Massachusetts | Mount Holyoke College | Private |
| Massachusetts | Northeastern University | Private |
| Massachusetts | Simmons University | Private |
| Massachusetts | Smith College | Private |
| Massachusetts | Springfield College | Private |
| Massachusetts | Stonehill College | Private |
| Massachusetts | University of Massachusetts - Amherst | Public |
| Michigan | Alma College | Private |
| Michigan | Calvin University | Private |
| Michigan | Cornerstone University | Private |
| Michigan | Eastern Michigan University | Public |
| Michigan | Hope College | Private |
| Michigan | Madonna University | Private |
| Michigan | Saginaw Valley State University | Public |
| Michigan | Western Michigan University | Public |
| Minnesota | Augsburg University | Private |
| Minnesota | Bethel University | Private |
| Minnesota | College of Saint Scholastica | Private |
| Minnesota | Concordia College at Moorhead | Private |
| Minnesota | Crown College | Private |
| Minnesota | Gustavus Adolphus College | Private |
| Minnesota | Hamline University | Private |
| Minnesota | Martin Luther College | Private |
| Minnesota | Saint Mary's University of Minnesota | Private |
| Minnesota | St. Catherine University | Private |
| Minnesota | University of Northwestern - St. Paul | Private |
| Mississippi | Blue Mountain College | Private |
| Missouri | College of the Ozarks | Private |
| Missouri | Columbia College | Private |
| Missouri | Drury University | Private |
| Missouri | Evangel University | Private |
| Missouri | Fontbonne University | Private |
| Missouri | Harris-Stowe State University | Public |
| Missouri | Maryville University of St. Louis | Private |
| Missouri | Missouri Baptist University | Private |
| Missouri | Missouri State University | Public |
| Missouri | Missouri Valley College | Private |
| | | |

| State | Institution | Туре |
|---------------|---|---------|
| Missouri | Park University | Private |
| Missouri | Rockhurst University | Private |
| Missouri | Southwest Baptist University | Private |
| Missouri | St. Louis University | Private |
| Missouri | Truman State University | Public |
| Missouri | University of Missouri - Columbia | Public |
| Missouri | Washington University in St. Louis | Private |
| Missouri | Webster University | Private |
| Montana | Carroll College | Private |
| Montana | Rocky Mountain College | Private |
| Nebraska | Chadron State College | Public |
| Nebraska | College of Saint Mary | Private |
| Nebraska | Hastings College | Private |
| Nebraska | Midland University | Private |
| Nebraska | Peru State College | Public |
| New Hampshire | Antioch University New England | Private |
| New Hampshire | Rivier University | Private |
| New Jersey | Bloomfield College | Private |
| New Jersey | Caldwell University | Private |
| New Jersey | Centenary University | Private |
| New Jersey | Fairleigh Dickinson University | Private |
| New Jersey | Felician University | Private |
| New Jersey | Kean University | Public |
| New Jersey | Monmouth University | Private |
| New Jersey | New Jersey City University | Public |
| New Jersey | Rutgers University - Camden | Public |
| New Jersey | Saint Elizabeth University | Private |
| New Jersey | Saint Peter's University | Private |
| New Jersey | Seton Hall University | Private |
| New Jersey | William Paterson University of New Jersey | Public |
| New York | Adelphi University | Private |
| New York | Bank Street College of Education | Private |
| New York | College of Saint Rose | Private |
| New York | Columbia University | Private |
| New York | CUNY - Hunter College | Public |
| New York | Daemen College | Private |
| New York | Dominican College | Private |
| New York | Fordham University | Private |
| New York | Hofstra University | Private |
| New York | Iona College | Private |
| New York | Keuka College | Private |
| New York | Le Moyne College | Private |
| | | |

| State | Institution | Туре |
|----------------|---------------------------------------|---------|
| New York | Long Island University | Private |
| New York | Manhattanville College | Private |
| New York | Marist College | Private |
| New York | Medaille College | Private |
| New York | Mercy College | Private |
| New York | Molloy College | Private |
| New York | Mount Saint Mary College | Private |
| New York | Nazareth College | Private |
| New York | New York Institute of Technology | Private |
| New York | New York University | Private |
| New York | Niagara University | Private |
| New York | Pace University | Private |
| New York | Sage Colleges | Private |
| New York | St. Bonaventure University | Private |
| New York | St. Francis College | Private |
| New York | St. John Fisher College | Private |
| New York | St. Joseph's College | Private |
| New York | St. Thomas Aquinas College | Private |
| New York | Syracuse University | Private |
| New York | Touro College | Private |
| New York | Utica College | Private |
| New York | Wagner College | Private |
| North Carolina | Barton College | Private |
| North Carolina | Belmont Abbey College | Private |
| North Carolina | Gardner-Webb University | Private |
| North Carolina | Greensboro College | Private |
| North Carolina | Guilford College | Private |
| North Carolina | Mars Hill University | Private |
| North Carolina | Meredith College | Private |
| North Carolina | North Carolina Wesleyan College | Private |
| North Carolina | Pfeiffer University | Private |
| North Carolina | Salem College | Private |
| North Carolina | St. Andrews University | Private |
| North Carolina | Wingate University | Private |
| North Dakota | University of Jamestown | Private |
| Ohio | Baldwin Wallace University | Private |
| Ohio | Bluffton University | Private |
| Ohio | Capital University | Private |
| Ohio | Cedarville University | Private |
| Ohio | Franciscan University of Steubenville | Private |
| Ohio | John Carroll University | Private |
| Ohio | Lake Erie College | Private |
| | | |

| State | Institution | Туре |
|--------------|--|---------|
| Ohio | Malone University | Private |
| Ohio | Mount Vernon Nazarene University | Private |
| Ohio | Muskingum University | Private |
| Ohio | Notre Dame College | Private |
| Ohio | Ohio Dominican University | Private |
| Ohio | Otterbein University | Private |
| Ohio | University of Cincinnati | Public |
| Ohio | University of Mount Union | Private |
| Ohio | Walsh University | Private |
| Ohio | Xavier University | Private |
| Oklahoma | Northeastern State University | Public |
| Oklahoma | Oklahoma Baptist University | Private |
| Oklahoma | Oral Roberts University | Private |
| Oregon | Corban University | Private |
| Oregon | George Fox University | Private |
| Oregon | Lewis and Clark College | Private |
| Oregon | Linfield University | Private |
| Oregon | Pacific University | Private |
| Oregon | University of Portland | Private |
| Oregon | Warner Pacific University | Private |
| Oregon | Western Oregon University | Public |
| Pennsylvania | Arcadia University | Private |
| Pennsylvania | Cairn University | Private |
| Pennsylvania | Carlow University | Private |
| Pennsylvania | Chestnut Hill College | Private |
| Pennsylvania | Clarks Summit University | Private |
| Pennsylvania | DeSales University | Private |
| Pennsylvania | Drexel University | Private |
| Pennsylvania | Gwynedd Mercy University | Private |
| Pennsylvania | Holy Family University | Private |
| Pennsylvania | Immaculata University | Private |
| Pennsylvania | King's College | Private |
| Pennsylvania | La Salle University | Private |
| Pennsylvania | Lebanon Valley College | Private |
| Pennsylvania | Marywood University | Private |
| Pennsylvania | Mercyhurst University | Private |
| Pennsylvania | Moravian University | Private |
| Pennsylvania | Pennsylvania State University | Public |
| Pennsylvania | Pennsylvania State University - Harrisburg | Public |
| Pennsylvania | Saint Joseph's University | Private |
| Pennsylvania | Saint Vincent College | Private |
| Pennsylvania | Seton Hill University | Private |
| Pennsylvania | Susquehanna University | Private |
| | | |

| State | Institution | Туре |
|----------------|---|---------|
| Pennsylvania | Temple University | Public |
| Pennsylvania | University of Pittsburgh | Public |
| Pennsylvania | University of Pittsburgh at Bradford | Public |
| Pennsylvania | University of Pittsburgh at Johnstown | Public |
| Pennsylvania | Waynesburg University | Private |
| Pennsylvania | Westminster College | Private |
| Pennsylvania | Wilson College | Private |
| Pennsylvania | York College of Pennsylvania | Private |
| Rhode Island | Providence College | Private |
| Rhode Island | Roger Williams University | Private |
| Rhode Island | Salve Regina University | Private |
| South Carolina | Anderson University | Private |
| South Carolina | Coastal Carolina University | Public |
| South Carolina | Furman University | Private |
| South Carolina | North Greenville University | Private |
| South Carolina | University of South Carolina - Beaufort | Public |
| South Dakota | Augustana University | Private |
| Tennessee | Carson-Newman University | Private |
| Tennessee | Cumberland University | Private |
| Tennessee | King University | Private |
| Tennessee | Lee University | Private |
| Tennessee | Lincoln Memorial University | Private |
| Tennessee | Southern Adventist University | Private |
| Tennessee | Trevecca Nazarene University | Private |
| Tennessee | Vanderbilt University | Private |
| Texas | Abilene Christian University | Private |
| Texas | Baylor University | Private |
| Texas | Concordia University Texas | Private |
| Texas | Hardin-Simmons University | Private |
| Texas | Howard Payne University | Private |
| Texas | LeTourneau University | Private |
| Texas | Lubbock Christian University | Private |
| Texas | McMurry University | Private |
| Texas | Southern Methodist University | Private |
| Texas | Texas Christian University | Private |
| Texas | Texas Wesleyan University | Private |
| Texas | University of Mary Hardin - Baylor | Private |
| Texas | University of the Incarnate Word | Private |
| Texas | Wayland Baptist University | Private |
| Utah | Brigham Young University | Private |
| Utah | Westminster College | Private |
| Virginia | Bridgewater College | Private |
| | | |

WORK SESSION AUGUST 21, 2024

ATTACHMENT 2

| State | Institution | Туре |
|---------------|--------------------------------|---------|
| Virginia | Eastern Mennonite University | Private |
| Virginia | Hampton University | Private |
| Virginia | Mary Baldwin University | Private |
| Virginia | Roanoke College | Private |
| Virginia | Shenandoah University | Private |
| Virginia | University of Richmond | Private |
| Washington | Antioch University Seattle | Private |
| Washington | Gonzaga University | Private |
| Washington | Heritage University | Private |
| Washington | Northwest University | Private |
| Washington | Pacific Lutheran University | Private |
| Washington | Saint Martin's University | Private |
| Washington | Seattle Pacific University | Private |
| Washington | Seattle University | Private |
| Washington | University of Puget Sound | Private |
| Washington | Whitworth University | Private |
| West Virginia | Shepherd University | Public |
| West Virginia | West Virginia Wesleyan College | Private |
| Wisconsin | Alverno College | Private |
| Wisconsin | Cardinal Stritch University | Private |
| Wisconsin | Carroll University | Private |
| Wisconsin | Concordia University Wisconsin | Private |
| Wisconsin | Edgewood College | Private |
| Wisconsin | Marquette University | Private |
| Wisconsin | St. Norbert College | Private |
| Wisconsin | Wisconsin Lutheran College | Private |

APPENDIX F

All program scores in Reading Foundations

Note that an asterisk by an institution name indicates that additional materials for consideration were provided after the review deadline, but prior to publication; scores for these programs may change pending review of those materials.

| Chata | In calaria: on | Duanuana | 2022 Crode |
|----------|-------------------------------------|---------------|------------|
| State | Institution | Program | 2023 Grade |
| Alabama | Alabama A&M University | Undergraduate | В |
| Alabama | Alabama A&M University | Graduate | A+ |
| Alabama | Alabama State University* | Undergraduate | В |
| Alabama | Auburn University | Undergraduate | F |
| Alabama | Jacksonville State University | Undergraduate | F |
| Alabama | Jacksonville State University | Graduate | F |
| Alabama | Miles College | Undergraduate | F |
| Alabama | Samford University | Undergraduate | A+ |
| Alabama | Samford University | Graduate | A+ |
| Alabama | Troy University | Undergraduate | Α |
| Alabama | Troy University | Graduate | В |
| Alabama | University of Alabama | Undergraduate | В |
| Alabama | University of Alabama | Graduate | С |
| Alabama | University of Alabama in Huntsville | Undergraduate | С |
| Alabama | University of Montevallo | Undergraduate | F |
| Alabama | University of South Alabama | Undergraduate | Α |
| Alabama | University of South Alabama | Graduate | Α |
| Alabama | University of West Alabama | Undergraduate | Α |
| Alaska | University of Alaska Fairbanks | Undergraduate | А |
| Alaska | University of Alaska Southeast | Undergraduate | В |
| Arizona | Arizona State University | Undergraduate | А |
| Arizona | Arizona State University | Graduate | Α |
| Arizona | Northern Arizona University | Undergraduate | В |
| Arizona | Northern Arizona University | Graduate | В |
| Arizona | University of Arizona | Undergraduate | F |
| Arkansas | Arkansas State University | Undergraduate | А |
| | | | |

View detailed analysis for each program, including findings on each instructional approach for each core component, evidence of practices contrary to the science of reading, and coverage of instruction for a range of learners by visiting www.nctq.org/review/standard/Reading-Foundations.

| State | Institution | Program | 2023 Grade |
|------------|--|---------------|------------|
| Arkansas | Arkansas Tech University | Undergraduate | A |
| Arkansas | Henderson State University | Undergraduate | D |
| Arkansas | John Brown University | Undergraduate | С |
| Arkansas | Ouachita Baptist University | Undergraduate | Α |
| Arkansas | Southern Arkansas University | Undergraduate | Α |
| Arkansas | University of Arkansas | Undergraduate | Α |
| Arkansas | University of Arkansas - Fort Smith | Undergraduate | Α |
| Arkansas | University of Arkansas at Little Rock | Undergraduate | Α |
| Arkansas | University of Arkansas at Monticello | Undergraduate | A+ |
| Arkansas | University of Arkansas at Pine Bluff | Undergraduate | Α |
| Arkansas | University of Central Arkansas | Undergraduate | В |
| Arkansas | University of Central Arkansas | Graduate | D |
| California | California Polytechnic State University - San Luis Obispo | Graduate | F |
| California | California State Polytechnic University - Pomona | Graduate | D |
| California | California State University - Bakersfield | Undergraduate | D |
| California | California State University - Channel Islands | Graduate | С |
| California | California State University - Chico | Undergraduate | В |
| California | California State University - Chico | Graduate | В |
| California | California State University - Dominguez Hills | Graduate | F |
| California | California State University - East Bay | Graduate | В |
| California | California State University - Fresno | Graduate | F |
| California | California State University - Fullerton | Graduate | F |
| California | California State University - Long Beach | Graduate | D |
| California | California State University - Los Angeles | Graduate | D |
| California | California State University - Monterey Bay | Graduate | F |
| California | California State University - Northridge | Undergraduate | F |
| California | California State University - Northridge | Graduate | F |
| California | California State University - Sacramento | Graduate | С |
| California | California State University - San Bernardino | Graduate | F |
| California | California State University - San Marcos | Graduate | F |
| California | California State University - Stanislaus | Graduate | С |
| California | Chapman University | Graduate | F |
| California | Humboldt State University | Graduate | F |
| California | Pepperdine University | Undergraduate | F |
| California | Point Loma Nazarene University | Graduate | В |

View detailed analysis for each program, including findings on each instructional approach for each core component, evidence of practices contrary to the science of reading, and coverage of instruction for a range of learners by visiting www.nctq.org/review/standard/Reading-Foundations.

| State | Institution | Program | 2023 Grade |
|-------------|--|---------------|------------|
| California | San Diego State University | Graduate | F |
| California | San Francisco State University | Graduate | F |
| California | San Jose State University | Graduate | F |
| California | Santa Clara University* | Graduate | F |
| California | Sonoma State University | Graduate | F |
| California | Stanford University | Graduate | F |
| California | University of California - Davis* | Graduate | D |
| California | University of California - Irvine | Graduate | С |
| California | University of California - Los Angeles | Graduate | D |
| California | University of California - Riverside | Graduate | D |
| California | University of California - San Diego | Graduate | D |
| California | University of California - Santa Barbara | Graduate | F |
| California | University of California - Santa Cruz* | Graduate | F |
| California | University of La Verne | Graduate | F |
| California | University of Redlands* | Undergraduate | F |
| California | University of Redlands* | Graduate | F |
| California | University of Southern California | Graduate | F |
| Colorado | Adams State University | Undergraduate | Α |
| Colorado | Colorado Christian University | Undergraduate | Α |
| Colorado | Colorado Mesa University | Undergraduate | Α |
| Colorado | Colorado Mountain College | Undergraduate | Α |
| Colorado | Colorado State University - Pueblo | Undergraduate | Α |
| Colorado | Fort Lewis College | Undergraduate | A+ |
| Colorado | Metropolitan State University of Denver | Undergraduate | В |
| Colorado | Metropolitan State University of Denver | Graduate | В |
| Colorado | University of Colorado Boulder | Undergraduate | A+ |
| Colorado | University of Colorado Colorado Springs | Undergraduate | С |
| Colorado | University of Colorado Denver | Undergraduate | A+ |
| Colorado | University of Colorado Denver | Graduate | С |
| Colorado | University of Northern Colorado | Undergraduate | Α |
| Colorado | University of Northern Colorado | Graduate | A+ |
| Colorado | Western Colorado University | Undergraduate | A+ |
| Connecticut | Central Connecticut State University | Undergraduate | В |
| Connecticut | Central Connecticut State University | Graduate | В |
| Connecticut | Eastern Connecticut State University | Undergraduate | Α |
| Connecticut | Eastern Connecticut State University | Graduate | Α |
| Connecticut | Southern Connecticut State University | Undergraduate | D |
| Connecticut | Southern Connecticut State University | Graduate | С |
| Connecticut | University of Bridgeport | Graduate | D |

View detailed analysis for each program, including findings on each instructional approach for each core component, evidence of practices contrary to the science of reading, and coverage of instruction for a range of learners by visiting www.nctq.org/review/standard/Reading-Foundations.

| State | Institution | Program | 2023 Grade |
|-------------------------|--|----------------|------------|
| Connecticut | University of Connecticut | Undergraduate | A |
| Connecticut | Western Connecticut State University | Undergraduate | F |
| Delaware | Delaware State University | Undergraduate | В |
| Delaware | University of Delaware | Undergraduate | В |
| District of | American University | Graduate | F |
| Columbia | | | |
| District of Columbia | University of the District of Columbia | Undergraduate | D |
| District of Columbia | University of the District of Columbia | Graduate | F |
| Florida | Chipola College | Undergraduate | F |
| Florida | Daytona State College | Undergraduate | Α |
| Florida | Flagler College | Undergraduate | F |
| Florida | Florida Agricultural and Mechanical | Undergraduate | В |
| | University | oao. g. adaats | |
| Florida | Florida Atlantic University | Undergraduate | С |
| Florida | Florida Atlantic University | Graduate | F |
| Florida | Florida Gulf Coast University | Undergraduate | С |
| Florida | Florida International University | Undergraduate | Α |
| Florida | Florida SouthWestern State College | Undergraduate | В |
| Florida | Florida State University | Undergraduate | Α |
| Florida | Indian River State College* | Undergraduate | F |
| Florida | Northwest Florida State College | Undergraduate | D |
| Florida | Palm Beach Atlantic University | Undergraduate | D |
| Florida | Southeastern University | Undergraduate | Α |
| Florida | St. Petersburg College | Undergraduate | В |
| Florida | University of Central Florida | Undergraduate | Α |
| Florida | University of Central Florida | Graduate | Α |
| Florida | University of Florida | Undergraduate | Α |
| Florida | University of North Florida | Undergraduate | В |
| Florida | University of South Florida | Undergraduate | Α |
| Florida | University of South Florida | Graduate | Α |
| Florida | University of West Florida | Undergraduate | В |
| Georgia | Albany State University* | Undergraduate | С |
| Georgia | Augusta University | Undergraduate | D |
| Georgia | Augusta University | Graduate | F |
| Georgia | College of Coastal Georgia | Undergraduate | Α |
| Georgia | Columbus State University | Undergraduate | F |
| Georgia | Dalton State College | Undergraduate | Α |
| Georgia | Dalton State College | Graduate | Α |

| State | Institution | Program | 2023 Grade |
|----------|--|---------------|------------|
| Georgia | Georgia College and State University | Undergraduate | A+ |
| Georgia | Georgia Gwinnett College* | Undergraduate | D |
| Georgia | Georgia Southern University | Undergraduate | F |
| Georgia | Georgia Southern University | Graduate | С |
| Georgia | Georgia Southwestern State University | Undergraduate | В |
| Georgia | Georgia State University | Undergraduate | F |
| Georgia | Georgia State University | Graduate | С |
| Georgia | Gordon State College | Undergraduate | F |
| Georgia | Kennesaw State University | Undergraduate | Α |
| Georgia | Middle Georgia State University | Undergraduate | Α |
| Georgia | University of Georgia | Undergraduate | F |
| Georgia | University of Georgia | Graduate | F |
| Georgia | University of North Georgia | Undergraduate | F |
| Georgia | University of West Georgia | Undergraduate | F |
| Georgia | Valdosta State University | Undergraduate | В |
| Georgia | Wesleyan College | Undergraduate | С |
| Hawaii | Brigham Young University - Hawaii | Undergraduate | F |
| Hawaii | University of Hawaii - West O'ahu | Undergraduate | F |
| Hawaii | University of Hawaii at Hilo | Graduate | F |
| Hawaii | University of Hawaii at Manoa | Undergraduate | В |
| Idaho | Boise State University* | Undergraduate | С |
| Idaho | Idaho State University | Undergraduate | F |
| Idaho | Lewis-Clark State College | Undergraduate | Α |
| Idaho | Northwest Nazarene University | Undergraduate | Α |
| Idaho | Northwest Nazarene University | Graduate | Α |
| Idaho | University of Idaho | Undergraduate | В |
| Illinois | Chicago State University* | Undergraduate | D |
| Illinois | Governors State University | Undergraduate | F |
| Illinois | Greenville University | Undergraduate | F |
| Illinois | Judson University | Undergraduate | F |
| Illinois | Loyola University Chicago* | Undergraduate | F |
| Illinois | Northeastern Illinois University | Undergraduate | F |
| Illinois | Northeastern Illinois University | Graduate | F |
| Illinois | Northwestern University | Graduate | F |
| Illinois | Olivet Nazarene University | Undergraduate | A+ |
| Illinois | Southern Illinois University Carbondale | Undergraduate | В |
| Illinois | University of Illinois at Chicago* | Undergraduate | D |
| Illinois | University of Illinois at Urbana-Champaign | Undergraduate | F |
| Illinois | University of Illinois at Urbana-Champaign | Graduate | F |

| State | Institution | Program | 2023 Grade |
|----------|---|---------------|------------|
| Illinois | University of Illinois Springfield | Undergraduate | D |
| Illinois | University of St. Francis | Undergraduate | С |
| Indiana | Anderson University* | Undergraduate | Α |
| Indiana | Ball State University* | Undergraduate | F |
| Indiana | Huntington University | Undergraduate | D |
| Indiana | Indiana State University | Undergraduate | D |
| Indiana | Indiana University - Bloomington | Undergraduate | F |
| Indiana | Indiana University - East | Undergraduate | F |
| Indiana | Indiana University - Kokomo | Undergraduate | D |
| Indiana | Indiana University - Northwest | Undergraduate | В |
| Indiana | Indiana University - South Bend | Undergraduate | F |
| Indiana | Indiana University - Southeast | Undergraduate | С |
| Indiana | Indiana University-Purdue University Indianapolis | Undergraduate | F |
| Indiana | Marian University Indianapolis | Undergraduate | A+ |
| Indiana | Purdue University Fort Wayne | Undergraduate | F |
| Indiana | Purdue University Northwest | Undergraduate | Α |
| Indiana | Saint Mary-of-the-Woods College | Undergraduate | F |
| Indiana | University of Evansville | Undergraduate | Α |
| Indiana | University of Southern Indiana | Undergraduate | В |
| Indiana | Vincennes University | Undergraduate | F |
| Iowa | Drake University* | Undergraduate | F |
| Iowa | Drake University* | Graduate | F |
| Iowa | Iowa State University | Undergraduate | F |
| Iowa | Loras College | Undergraduate | В |
| Iowa | University of Iowa | Undergraduate | F |
| Iowa | University of Northern Iowa | Undergraduate | F |
| Kansas | Fort Hays State University | Undergraduate | Α |
| Kansas | Newman University | Undergraduate | F |
| Kansas | Pittsburg State University | Undergraduate | F |
| Kansas | University of Kansas | Undergraduate | В |
| Kansas | Washburn University | Undergraduate | F |
| Kansas | Wichita State University | Undergraduate | A+ |
| Kentucky | Bellarmine University | Undergraduate | D |
| Kentucky | Bellarmine University | Graduate | В |
| Kentucky | Campbellsville University | Undergraduate | Α |
| Kentucky | Eastern Kentucky University | Undergraduate | F |
| Kentucky | Eastern Kentucky University | Graduate | С |
| Kentucky | Kentucky State University | Undergraduate | F |

| State | Institution | Program | 2023 Grade |
|-----------|---|---------------|------------|
| Kentucky | Midway University | Undergraduate | F |
| Kentucky | Morehead State University | Undergraduate | Α |
| Kentucky | Murray State University | Undergraduate | Α |
| Kentucky | Northern Kentucky University | Undergraduate | D |
| Kentucky | University of Kentucky | Undergraduate | D |
| Kentucky | University of Louisville | Graduate | F |
| Kentucky | University of Pikeville | Undergraduate | Α |
| Kentucky | University of the Cumberlands | Graduate | F |
| Kentucky | Western Kentucky University* | Undergraduate | С |
| Louisiana | Grambling State University | Undergraduate | D |
| Louisiana | Louisiana State University | Undergraduate | Α |
| Louisiana | Louisiana State University - Alexandria | Undergraduate | A+ |
| Louisiana | Louisiana State University - Shreveport | Undergraduate | В |
| Louisiana | Louisiana Tech University | Undergraduate | С |
| Louisiana | McNeese State University | Undergraduate | Α |
| Louisiana | Nicholls State University | Undergraduate | Α |
| Louisiana | Northwestern State University | Undergraduate | В |
| | of Louisiana | | |
| Louisiana | Southeastern Louisiana University | Undergraduate | Α |
| Louisiana | Southeastern Louisiana University | Graduate | В |
| Louisiana | Southern University and A&M College | Undergraduate | A+ |
| Louisiana | University of Louisiana at Lafayette | Undergraduate | Α |
| Louisiana | University of Louisiana at Monroe | Undergraduate | A+ |
| Louisiana | University of New Orleans | Undergraduate | Α |
| Louisiana | University of New Orleans | Graduate | A+ |
| Maine | University of Maine | Undergraduate | F |
| Maine | University of Maine at Farmington | Undergraduate | F |
| Maine | University of Southern Maine | Undergraduate | F |
| Maryland | Bowie State University | Undergraduate | F |
| Maryland | Bowie State University | Graduate | F |
| Maryland | Coppin State University | Graduate | F |
| Maryland | Frostburg State University | Undergraduate | F |
| Maryland | Frostburg State University | Graduate | F |
| Maryland | Hood College | Undergraduate | F |
| Maryland | McDaniel College | Undergraduate | Α |
| Maryland | Morgan State University* | Undergraduate | D |
| Maryland | Salisbury University | Undergraduate | В |
| Maryland | St. Mary's College of Maryland | Undergraduate | F |
| Maryland | Towson University | Undergraduate | В |

ATTACHMENT 2

| State | Institution | Program | 2023 Grade |
|---------------|---|---------------|------------|
| Maryland | Towson University | Graduate | F |
| Maryland | University of Maryland - Baltimore County* | Undergraduate | F |
| Maryland | University of Maryland - College Park | Undergraduate | С |
| Maryland | University of Maryland - College Park | Graduate | F |
| Massachusetts | Bay Path University | Undergraduate | Α |
| Massachusetts | Boston College | Undergraduate | F |
| Massachusetts | Boston University | Graduate | D |
| Massachusetts | Bridgewater State University | Undergraduate | F |
| Massachusetts | Bridgewater State University | Graduate | D |
| Massachusetts | Elms College (College of Our Lady of the Elms)* | Graduate | F |
| Massachusetts | Fitchburg State University | Undergraduate | D |
| Massachusetts | Fitchburg State University | Graduate | F |
| Massachusetts | Framingham State University* | Undergraduate | F |
| Massachusetts | Gordon College | Undergraduate | A+ |
| Massachusetts | Lesley University | Graduate | D |
| Massachusetts | Massachusetts College of Liberal Arts | Undergraduate | D |
| Massachusetts | Merrimack College* | Undergraduate | D |
| Massachusetts | Merrimack College* | Graduate | F |
| Massachusetts | Salem State University | Graduate | F |
| Massachusetts | University of Massachusetts - Boston | Graduate | F |
| Massachusetts | Westfield State University* | Undergraduate | D |
| Massachusetts | Westfield State University* | Graduate | F |
| Massachusetts | Worcester State University | Undergraduate | Α |
| Michigan | Aquinas College | Undergraduate | В |
| Michigan | Central Michigan University | Undergraduate | Α |
| Michigan | Ferris State University | Undergraduate | A+ |
| Michigan | Grand Valley State University | Undergraduate | F |
| Michigan | Grand Valley State University | Graduate | F |
| Michigan | Lake Superior State University | Undergraduate | В |
| Michigan | Michigan State University | Undergraduate | С |
| Michigan | Northern Michigan University | Undergraduate | F |
| Michigan | Oakland University | Undergraduate | F |
| Michigan | Oakland University | Graduate | F |
| Michigan | Spring Arbor University | Undergraduate | F |
| Michigan | University of Michigan - Ann Arbor | Undergraduate | D |
| Michigan | University of Michigan - Dearborn | Undergraduate | F |
| Michigan | University of Michigan - Flint | Undergraduate | В |
| Michigan | Wayne State University | Undergraduate | F |

| State | Institution | Program | 2023 Grade |
|-------------|--|---------------|------------|
| Michigan | Wayne State University | Graduate | F |
| Minnesota | Bemidji State University | Undergraduate | Α |
| Minnesota | College of Saint Benedict and Saint | Undergraduate | F |
| | John's University | | |
| Minnesota | Concordia University St. Paul | Undergraduate | В |
| Minnesota | Metropolitan State University | Undergraduate | D |
| Minnesota | Minnesota State University - Mankato | Undergraduate | F |
| Minnesota | Minnesota State University - Moorhead | Undergraduate | Α |
| Minnesota | Southwest Minnesota State University* | Undergraduate | В |
| Minnesota | St. Cloud State University | Undergraduate | В |
| Minnesota | University of Minnesota - Crookston | Undergraduate | D |
| Minnesota | University of Minnesota - Duluth | Undergraduate | F |
| Minnesota | University of Minnesota - Morris | Undergraduate | С |
| Minnesota | University of Minnesota - Twin Cities* | Undergraduate | В |
| Minnesota | University of St. Thomas* | Undergraduate | D |
| Minnesota | Winona State University | Undergraduate | F |
| Mississippi | Alcorn State University | Undergraduate | С |
| Mississippi | Delta State University | Undergraduate | Α |
| Mississippi | Jackson State University | Undergraduate | A+ |
| Mississippi | Mississippi College | Undergraduate | С |
| Mississippi | Mississippi State University | Undergraduate | A+ |
| Mississippi | Mississippi University for Women | Undergraduate | Α |
| Mississippi | Mississippi Valley State University | Undergraduate | С |
| Mississippi | University of Mississippi | Undergraduate | F |
| Mississippi | University of Southern Mississippi | Undergraduate | A+ |
| Mississippi | William Carey University | Undergraduate | Α |
| Missouri | Central Methodist University - College | Undergraduate | F |
| | of Liberal Arts & Sciences | | |
| Missouri | Hannibal-LaGrange University | Undergraduate | F |
| Missouri | Lincoln University | Undergraduate | В |
| Missouri | Lindenwood University* | Undergraduate | В |
| Missouri | Lindenwood University* | Graduate | D |
| Missouri | Missouri Southern State University | Undergraduate | F |
| Missouri | Missouri Western State University | Undergraduate | D |
| Missouri | Northwest Missouri State University | Undergraduate | F |
| Missouri | Southeast Missouri State University* | Undergraduate | F |
| Missouri | University of Central Missouri | Undergraduate | F |
| Missouri | University of Missouri - Kansas City | Undergraduate | Α |
| Missouri | University of Missouri - St. Louis | Undergraduate | С |
| | | | |

| State | Institution | Program | 2023 Grade |
|---------------|-------------------------------------|---------------|------------|
| Missouri | University of Missouri - St. Louis | Graduate | С |
| Montana | Montana State University | Undergraduate | Α |
| Montana | Montana State University - Northern | Undergraduate | F |
| Montana | Montana State University Billings | Undergraduate | С |
| Montana | Salish Kootenai College | Undergraduate | Α |
| Montana | University of Montana | Undergraduate | F |
| Montana | University of Montana | Graduate | F |
| Montana | University of Montana - Western | Undergraduate | F |
| Nebraska | Concordia University Nebraska | Undergraduate | В |
| Nebraska | Creighton University | Undergraduate | F |
| Nebraska | Doane University* | Undergraduate | В |
| Nebraska | Union College | Undergraduate | С |
| Nebraska | University of Nebraska - Lincoln | Undergraduate | F |
| Nebraska | University of Nebraska - Lincoln | Graduate | F |
| Nebraska | University of Nebraska at Kearney | Undergraduate | F |
| Nebraska | University of Nebraska Omaha | Undergraduate | Α |
| Nebraska | Wayne State College | Undergraduate | С |
| Nevada | Great Basin College | Undergraduate | С |
| Nevada | Nevada State College | Undergraduate | В |
| Nevada | University of Nevada - Las Vegas | Undergraduate | F |
| Nevada | University of Nevada - Reno* | Undergraduate | F |
| Nevada | University of Nevada - Reno* | Graduate | F |
| New Hampshire | Keene State College* | Undergraduate | В |
| New Hampshire | Plymouth State University | Undergraduate | D |
| New Hampshire | Southern New Hampshire University | Undergraduate | F |
| New Hampshire | University of New Hampshire | Graduate | D |
| New Jersey | College of New Jersey | Undergraduate | F |
| New Jersey | College of New Jersey | Graduate | F |
| New Jersey | Georgian Court University | Undergraduate | F |
| New Jersey | Georgian Court University | Graduate | F |
| New Jersey | Montclair State University | Undergraduate | С |
| New Jersey | Montclair State University | Graduate | F |
| New Jersey | Rider University | Undergraduate | F |
| New Jersey | Rowan University | Undergraduate | F |
| New Jersey | Rutgers University - New Brunswick | Graduate | F |
| New Jersey | Stockton University | Undergraduate | F |
| New Mexico | Eastern New Mexico University | Undergraduate | Α |
| New Mexico | New Mexico Highlands University | Undergraduate | В |
| New Mexico | New Mexico State University | Undergraduate | В |
| | | | |

| State | Institution | Program | 2023 Grade |
|------------|---------------------------------|---------------|------------|
| New Mexico | Northern New Mexico College | Undergraduate | D |
| New Mexico | University of New Mexico | Undergraduate | D |
| New Mexico | University of New Mexico | Graduate | F |
| New Mexico | Western New Mexico University | Undergraduate | A+ |
| New Mexico | Western New Mexico University | Graduate | A+ |
| New York | Alfred University* | Undergraduate | D |
| New York | Canisius College | Undergraduate | В |
| New York | Canisius College | Graduate | F |
| New York | CUNY - Brooklyn College | Undergraduate | F |
| New York | CUNY - Brooklyn College | Graduate | F |
| New York | CUNY - City College | Undergraduate | D |
| New York | CUNY - City College | Graduate | F |
| New York | CUNY - College of Staten Island | Undergraduate | F |
| New York | CUNY - College of Staten Island | Graduate | F |
| New York | CUNY - Lehman College | Undergraduate | F |
| New York | CUNY - Lehman College | Graduate | F |
| New York | CUNY - Medgar Evers College | Undergraduate | F |
| New York | CUNY - Queens College | Undergraduate | С |
| New York | CUNY - Queens College | Graduate | F |
| New York | CUNY - York College | Undergraduate | F |
| New York | Manhattan College | Undergraduate | В |
| New York | Roberts Wesleyan College* | Undergraduate | F |
| New York | St. John's University | Undergraduate | F |
| New York | St. John's University | Graduate | С |
| New York | SUNY - Binghamton University | Graduate | С |
| New York | SUNY - Buffalo State | Undergraduate | В |
| New York | SUNY - Buffalo State | Graduate | С |
| New York | SUNY - Fredonia* | Undergraduate | F |
| New York | SUNY - Geneseo | Undergraduate | D |
| New York | SUNY - New Paltz | Undergraduate | С |
| New York | SUNY - New Paltz | Graduate | С |
| New York | SUNY - Oswego* | Undergraduate | В |
| New York | SUNY - Oswego* | Graduate | В |
| New York | SUNY - Potsdam | Undergraduate | F |
| New York | SUNY - Potsdam | Graduate | F |
| New York | SUNY College at Brockport | Undergraduate | F |
| New York | SUNY College at Cortland | Undergraduate | F |
| New York | SUNY College at Cortland | Graduate | F |
| New York | SUNY College at Old Westbury | Undergraduate | F |
| | | | |

| State | Institution | Program | 2023 Grade |
|----------------|---|---------------|------------|
| New York | SUNY College at Oneonta | Undergraduate | F |
| New York | SUNY College at Plattsburgh | Undergraduate | F |
| New York | SUNY College at Plattsburgh | Graduate | F |
| New York | SUNY University at Buffalo | Graduate | D |
| North Carolina | Appalachian State University | Undergraduate | Α |
| North Carolina | Campbell University | Undergraduate | С |
| North Carolina | Catawba College | Undergraduate | D |
| North Carolina | East Carolina University | Undergraduate | A+ |
| North Carolina | Elizabeth City State University | Undergraduate | F |
| North Carolina | Elon University | Undergraduate | Α |
| North Carolina | Fayetteville State University | Undergraduate | С |
| North Carolina | High Point University | Undergraduate | Α |
| North Carolina | Lees-McRae College | Undergraduate | Α |
| North Carolina | Lenoir-Rhyne University | Undergraduate | A+ |
| North Carolina | North Carolina A&T State University | Undergraduate | Α |
| North Carolina | North Carolina Central University | Undergraduate | D |
| North Carolina | North Carolina State University at Raleigh | Graduate | F |
| North Carolina | University of North Carolina Asheville | Undergraduate | A+ |
| North Carolina | University of North Carolina at Chapel Hill | Graduate | A+ |
| North Carolina | University of North Carolina at Charlotte | Undergraduate | Α |
| North Carolina | University of North Carolina at Charlotte | Graduate | D |
| North Carolina | University of North Carolina at Greensboro | Undergraduate | Α |
| North Carolina | University of North Carolina at Greensboro | Graduate | С |
| North Carolina | University of North Carolina at Pembroke | Undergraduate | С |
| North Carolina | University of North Carolina at Wilmington | Undergraduate | D |
| North Carolina | University of North Carolina at Wilmington | Graduate | F |
| North Carolina | Western Carolina University | Undergraduate | A+ |
| North Carolina | Winston-Salem State University | Undergraduate | В |
| North Dakota | Dickinson State University | Undergraduate | Α |
| North Dakota | Mayville State University* | Undergraduate | F |
| North Dakota | Minot State University | Undergraduate | F |
| North Dakota | Sitting Bull College | Undergraduate | F |
| North Dakota | University of Mary | Undergraduate | С |
| North Dakota | University of North Dakota | Undergraduate | В |
| North Dakota | Valley City State University* | Undergraduate | F |
| Ohio | Ashland University | Undergraduate | F |
| Ohio | Ashland University | Graduate | F |

| State | Institution | Program | 2023 Grade |
|----------|--|---------------|------------|
| Ohio | Bowling Green State University | Undergraduate | В |
| Ohio | Central State University | Undergraduate | В |
| Ohio | Cleveland State University* | Undergraduate | D |
| Ohio | Cleveland State University* | Graduate | D |
| Ohio | Defiance College | Undergraduate | F |
| Ohio | Kent State University | Undergraduate | D |
| Ohio | Kent State University | Graduate | F |
| Ohio | Marietta College | Undergraduate | Α |
| Ohio | Miami University of Ohio* | Undergraduate | F |
| Ohio | Mount St. Joseph University | Undergraduate | A+ |
| Ohio | Ohio State University* | Undergraduate | В |
| Ohio | Ohio State University* | Graduate | D |
| Ohio | Ohio University | Undergraduate | Α |
| Ohio | Shawnee State University | Undergraduate | D |
| Ohio | University of Akron* | Undergraduate | В |
| Ohio | University of Dayton | Undergraduate | A+ |
| Ohio | University of Findlay | Undergraduate | A+ |
| Ohio | University of Rio Grande | Undergraduate | A+ |
| Ohio | University of Toledo | Undergraduate | D |
| Ohio | University of Toledo | Graduate | F |
| Ohio | Wilmington College | Undergraduate | С |
| Ohio | Wittenberg University | Undergraduate | D |
| Ohio | Wright State University | Undergraduate | В |
| Ohio | Youngstown State University | Undergraduate | Α |
| Oklahoma | Cameron University | Undergraduate | В |
| Oklahoma | East Central University | Undergraduate | F |
| Oklahoma | Langston University | Undergraduate | В |
| Oklahoma | Northwestern Oklahoma State University | Undergraduate | С |
| Oklahoma | Oklahoma Panhandle State University | Undergraduate | F |
| Oklahoma | Oklahoma State University | Undergraduate | D |
| Oklahoma | Oklahoma State University | Graduate | F |
| Oklahoma | Southeastern Oklahoma State University | Undergraduate | С |
| Oklahoma | Southwestern Oklahoma State University | Undergraduate | D |
| Oklahoma | University of Central Oklahoma | Undergraduate | F |
| Oklahoma | University of Oklahoma | Undergraduate | В |
| Oklahoma | University of Science and Arts of Oklahoma | Undergraduate | F |
| Oregon | Eastern Oregon University | Undergraduate | Α |
| Oregon | Eastern Oregon University | Graduate | В |

| State | Institution | Program | 2023 Grade |
|--------------|--|---------------|------------|
| Oregon | Oregon State University | Undergraduate | С |
| Oregon | Oregon State University | Graduate | F |
| Oregon | Portland State University | Graduate | F |
| Oregon | Southern Oregon University | Undergraduate | F |
| Oregon | Southern Oregon University | Graduate | F |
| Oregon | University of Oregon | Graduate | F |
| Pennsylvania | Alvernia University | Undergraduate | Α |
| Pennsylvania | Cabrini College | Undergraduate | F |
| Pennsylvania | Cedar Crest College | Graduate | D |
| Pennsylvania | Cheyney University of Pennsylvania | Undergraduate | D |
| Pennsylvania | Commonwealth University of Pennsylvania: Bloomsburg Campus | Undergraduate | А |
| Pennsylvania | Commonwealth University of Pennsylvania: Bloomsburg Campus | Graduate | С |
| Pennsylvania | Commonwealth University of Pennsylvania: Lock Haven Campus | Undergraduate | В |
| Pennsylvania | Commonwealth University of Pennsylvania: Mansfield Campus | Undergraduate | F |
| Pennsylvania | Duquesne University | Undergraduate | F |
| Pennsylvania | East Stroudsburg University of Pennsylvania | Undergraduate | D |
| Pennsylvania | Eastern University | Undergraduate | F |
| Pennsylvania | Eastern University | Graduate | С |
| Pennsylvania | Elizabethtown College* | Undergraduate | F |
| Pennsylvania | Gannon University | Undergraduate | Α |
| Pennsylvania | Geneva College | Undergraduate | В |
| Pennsylvania | Grove City College | Undergraduate | В |
| Pennsylvania | Indiana University of Pennsylvania | Undergraduate | С |
| Pennsylvania | Juniata College* | Undergraduate | В |
| Pennsylvania | Kutztown University of Pennsylvania | Undergraduate | D |
| Pennsylvania | Lincoln University of Pennsylvania | Graduate | F |
| Pennsylvania | Messiah University | Undergraduate | F |
| Pennsylvania | Millersville University of Pennsylvania | Undergraduate | С |
| Pennsylvania | Misericordia University | Undergraduate | В |
| Pennsylvania | Neumann University | Undergraduate | В |
| Pennsylvania | Point Park University | Undergraduate | F |
| Pennsylvania | Robert Morris University | Undergraduate | С |
| Pennsylvania | Saint Francis University | Undergraduate | F |
| Pennsylvania | Shippensburg University of Pennsylvania | Undergraduate | F |
| Pennsylvania | Shippensburg University of Pennsylvania | Graduate | С |

| State | Institution | Program | 2023 Grade |
|----------------|--|---------------|------------|
| Pennsylvania | Slippery Rock University of Pennsylvania | Undergraduate | F |
| Pennsylvania | University of Pennsylvania | Graduate | F |
| Pennsylvania | West Chester University of Pennsylvania | Undergraduate | В |
| Pennsylvania | Widener University* | Undergraduate | D |
| Rhode Island | Rhode Island College | Undergraduate | A+ |
| Rhode Island | University of Rhode Island | Undergraduate | Α |
| Rhode Island | University of Rhode Island | Graduate | Α |
| South Carolina | Charleston Southern University | Undergraduate | В |
| South Carolina | Clemson University | Undergraduate | С |
| South Carolina | College of Charleston* | Undergraduate | F |
| South Carolina | College of Charleston* | Graduate | F |
| South Carolina | Columbia College | Undergraduate | F |
| South Carolina | Converse College | Undergraduate | F |
| South Carolina | Francis Marion University | Undergraduate | F |
| South Carolina | Lander University | Undergraduate | В |
| South Carolina | South Carolina State University | Undergraduate | С |
| South Carolina | University of South Carolina - Aiken | Undergraduate | F |
| South Carolina | University of South Carolina - Columbia | Undergraduate | F |
| South Carolina | University of South Carolina - Upstate | Undergraduate | D |
| South Carolina | Winthrop University | Undergraduate | Α |
| South Dakota | Black Hills State University | Undergraduate | F |
| South Dakota | Dakota State University* | Undergraduate | В |
| South Dakota | Mount Marty University | Undergraduate | С |
| South Dakota | Northern State University | Undergraduate | F |
| South Dakota | Oglala Lakota College* | Undergraduate | Α |
| South Dakota | South Dakota State University | Undergraduate | D |
| South Dakota | University of Sioux Falls | Undergraduate | F |
| South Dakota | University of South Dakota* | Undergraduate | F |
| Tennessee | Austin Peay State University | Undergraduate | D |
| Tennessee | Austin Peay State University | Graduate | С |
| Tennessee | Belmont University | Undergraduate | F |
| Tennessee | East Tennessee State University | Undergraduate | D |
| Tennessee | Freed-Hardeman University | Graduate | D |
| Tennessee | Lipscomb University* | Undergraduate | С |
| Tennessee | Lipscomb University* | Graduate | Α |
| Tennessee | Middle Tennessee State University | Undergraduate | A+ |
| Tennessee | Milligan University | Undergraduate | В |
| Tennessee | South College | Undergraduate | В |
| Tennessee | Tennessee State University | Undergraduate | Α |

| State | Institution | Program | 2023 Grade |
|-----------|---|---------------|------------|
| Tennessee | Tennessee State University | Graduate | F |
| Tennessee | Tennessee Technological University | Undergraduate | В |
| Tennessee | Tennessee Technological University | Graduate | В |
| Tennessee | Tennessee Wesleyan University | Undergraduate | A+ |
| Tennessee | Tusculum University | Undergraduate | D |
| Tennessee | Tusculum University | Graduate | D |
| Tennessee | Union University | Undergraduate | F |
| Tennessee | Union University | Graduate | F |
| Tennessee | University of Memphis | Undergraduate | В |
| Tennessee | University of Memphis | Graduate | В |
| Tennessee | University of Tennessee* | Undergraduate | В |
| Tennessee | University of Tennessee at Chattanooga* | Undergraduate | F |
| Tennessee | University of Tennessee at Chattanooga* | Graduate | F |
| Tennessee | University of Tennessee at Martin | Undergraduate | F |
| Tennessee | University of Tennessee at Martin | Graduate | F |
| Texas | Angelo State University | Undergraduate | F |
| Texas | Dallas Baptist University | Undergraduate | Α |
| Texas | East Texas Baptist University | Graduate | С |
| Texas | Houston Baptist University | Undergraduate | A+ |
| Texas | Houston Baptist University | Graduate | D |
| Texas | Midwestern State University | Undergraduate | Α |
| Texas | Our Lady of the Lake University | Undergraduate | F |
| Texas | Prairie View A&M University | Undergraduate | D |
| Texas | Sam Houston State University | Undergraduate | D |
| Texas | Stephen F. Austin State University | Undergraduate | F |
| Texas | Stephen F. Austin State University | Graduate | С |
| Texas | Sul Ross State University | Undergraduate | A+ |
| Texas | Tarleton State University | Undergraduate | В |
| Texas | Texas A&M International University | Undergraduate | F |
| Texas | Texas A&M University | Undergraduate | Α |
| Texas | Texas A&M University - Central Texas | Undergraduate | Α |
| Texas | Texas A&M University - Commerce | Undergraduate | D |
| Texas | Texas A&M University - Corpus Christi | Undergraduate | F |
| Texas | Texas A&M University - Corpus Christi | Graduate | F |
| Texas | Texas A&M University - Kingsville | Undergraduate | Α |
| Texas | Texas A&M University - San Antonio | Undergraduate | Α |
| Texas | Texas A&M University - Texarkana | Undergraduate | A+ |
| Texas | Texas Lutheran University | Undergraduate | Α |
| Texas | Texas Southern University | Undergraduate | Α |
| | | | |

| State | Institution | Program | 2023 Grade |
|----------|--|---------------|------------|
| Texas | Texas State University - San Marcos | Undergraduate | F |
| Texas | Texas State University - San Marcos | Graduate | С |
| Texas | Texas Tech University | Undergraduate | В |
| Texas | Texas Woman's University | Undergraduate | D |
| Texas | Texas Woman's University | Graduate | F |
| Texas | Trinity University | Undergraduate | F |
| Texas | University of Houston | Undergraduate | F |
| Texas | University of Houston - Clear Lake | Undergraduate | D |
| Texas | University of Houston - Clear Lake | Graduate | D |
| Texas | University of Houston - Downtown | Undergraduate | Α |
| Texas | University of Houston - Victoria | Undergraduate | В |
| Texas | University of Houston - Victoria | Graduate | F |
| Texas | University of North Texas | Undergraduate | F |
| Texas | University of North Texas | Graduate | F |
| Texas | University of North Texas at Dallas | Undergraduate | С |
| Texas | University of St. Thomas | Undergraduate | F |
| Texas | University of Texas at Arlington | Undergraduate | Α |
| Texas | University of Texas at Arlington | Graduate | F |
| Texas | University of Texas at Austin | Undergraduate | С |
| Texas | University of Texas at Dallas | Undergraduate | D |
| Texas | University of Texas at El Paso* | Undergraduate | В |
| Texas | University of Texas at San Antonio | Undergraduate | В |
| Texas | University of Texas at Tyler* | Undergraduate | F |
| Texas | University of Texas of the Permian Basin | Undergraduate | D |
| Texas | University of Texas Rio Grande Valley | Undergraduate | D |
| Texas | West Texas A&M University | Undergraduate | Α |
| Utah | Southern Utah University | Undergraduate | A+ |
| Utah | University of Utah | Undergraduate | Α |
| Utah | Utah State University | Undergraduate | A+ |
| Utah | Utah Tech University | Undergraduate | Α |
| Utah | Utah Valley University | Undergraduate | A+ |
| Utah | Weber State University | Undergraduate | С |
| Utah | Western Governors University | Undergraduate | F |
| Utah | Western Governors University | Graduate | F |
| Vermont | Castleton University | Undergraduate | D |
| Vermont | Northern Vermont University | Undergraduate | F |
| Vermont | Northern Vermont University | Graduate | F |
| Vermont | University of Vermont | Undergraduate | D |
| Virginia | Averett University* | Undergraduate | F |
| | | | |

| State | Institution | Program | 2023 Grade |
|---------------|--|---------------|------------|
| Virginia | Christopher Newport University | Graduate | A+ |
| Virginia | College of William and Mary | Undergraduate | С |
| Virginia | College of William and Mary | Graduate | В |
| Virginia | George Mason University | Undergraduate | Α |
| Virginia | George Mason University | Graduate | F |
| Virginia | James Madison University | Undergraduate | A+ |
| Virginia | Liberty University | Undergraduate | D |
| Virginia | Liberty University | Graduate | F |
| Virginia | Longwood University | Undergraduate | В |
| Virginia | Marymount University | Undergraduate | Α |
| Virginia | Norfolk State University | Undergraduate | С |
| Virginia | Old Dominion University | Undergraduate | F |
| Virginia | Old Dominion University | Graduate | В |
| Virginia | Radford University | Undergraduate | В |
| Virginia | Regent University | Undergraduate | A+ |
| Virginia | University of Lynchburg | Undergraduate | В |
| Virginia | University of Mary Washington | Graduate | С |
| Virginia | University of Virginia* | Graduate | A+ |
| Virginia | University of Virginia's College at Wise | Undergraduate | Α |
| Virginia | Virginia Commonwealth University | Undergraduate | В |
| Virginia | Virginia Commonwealth University | Graduate | С |
| Virginia | Virginia Polytechnic Institute and | Graduate | A+ |
| | State University | | |
| Virginia | Virginia State University | Undergraduate | В |
| Washington | Central Washington University | Undergraduate | С |
| Washington | Centralia College | Undergraduate | F |
| Washington | City University of Seattle* | Undergraduate | F |
| Washington | City University of Seattle* | Graduate | F |
| Washington | Eastern Washington University | Undergraduate | С |
| Washington | Eastern Washington University | Graduate | F |
| Washington | University of Washington - Bothell | Graduate | F |
| Washington | University of Washington - Seattle | Graduate | F |
| Washington | University of Washington - Tacoma | Graduate | F |
| Washington | Washington State University | Undergraduate | Α |
| Washington | Washington State University | Graduate | В |
| Washington | Western Washington University* | Undergraduate | F |
| West Virginia | Bluefield State College | Undergraduate | В |
| West Virginia | Concord University | Undergraduate | В |
| West Virginia | Fairmont State University | Undergraduate | F |
| | | | |

WORK SESSION AUGUST 21, 2024

ATTACHMENT 2

| West Virginia Glenville State University Undergraduate West Virginia Marshall University Undergraduate West Virginia West Liberty University Undergraduate West Virginia West Virginia State University Undergraduate West Virginia West Virginia University Undergraduate | A A A C |
|--|------------------|
| West Virginia West Liberty University Undergraduate West Virginia State University Undergraduate | A C F |
| West Virginia West Virginia State University Undergraduate | C F |
| | F |
| Most Virginia Mast Virginia Hairansitu | • |
| West Virginia West Virginia University Undergraduate | _ |
| West Virginia West Virginia University Graduate | F |
| West Virginia West Virginia University - Parkersburg Undergraduate | F |
| Wisconsin Carthage College Undergraduate | F |
| Wisconsin Maranatha Baptist University Undergraduate | Α |
| Wisconsin Marian University Undergraduate | D |
| Wisconsin University of Wisconsin - Eau Claire Undergraduate | F |
| Wisconsin University of Wisconsin - Green Bay Undergraduate | С |
| Wisconsin University of Wisconsin - La Crosse Undergraduate | С |
| Wisconsin University of Wisconsin - Madison Undergraduate | Α |
| Wisconsin University of Wisconsin - Milwaukee Undergraduate | F |
| Wisconsin University of Wisconsin - Oshkosh Undergraduate | С |
| Wisconsin University of Wisconsin - Parkside Undergraduate | В |
| Wisconsin University of Wisconsin - Platteville Undergraduate | D |
| Wisconsin University of Wisconsin - River Falls Undergraduate | В |
| Wisconsin University of Wisconsin - Stevens Point Undergraduate | A+ |
| Wisconsin University of Wisconsin - Superior Undergraduate | F |
| Wisconsin University of Wisconsin - Whitewater Undergraduate | С |
| Wyoming University of Wyoming Undergraduate | В |
| Wyoming University of Wyoming Graduate | С |



Educator Pipeline Report December 13, 2023

TABLE OF CONTENTS

| Executive Summary | 4 |
|--|-------|
| Educator Staffing | 5 |
| Educator Certificates | 6 |
| Educator Preparation Enrollment and Completers | 7 |
| Educator Alternative Certificates | 8-10 |
| Teacher Shortage Areas | 11 |
| Projections and Public K-12 Student Enrollment | 12 |
| Idaho Population Growth | 13 |
| Teacher Salaries | 14-15 |
| Teacher Retention | 16-18 |
| National Recommendations | 19 |
| References | 20 |



FIGURES AND TABLES

| Table 1: Educator Staffing | 5 |
|--|------|
| Figure 1: Currently Certificated Individuals | 6 |
| Figure 2: Educator Preparation Program Enrollment and Completers | 7 |
| Figure 3: Idaho Education Regions and School Districts | 8 |
| Figures 4-9: Educator Alternative Certificates by Region | 9-10 |
| Table 2: Teacher Shortage Area Report, 2023-2024 | 11 |
| Figure 10: Teacher Employment Projections | 12 |
| Figure 11: Idaho Public K-12 Student Enrollment | 12 |
| Table 3: Idaho Population Growth | 13 |
| Figure 12: Idaho Mean Teacher Salary by Year | 14 |
| Figure 13: Idaho Average Teacher Salary by State | 14 |
| Figure 14: Idaho Average Teacher Salary State by State | 15 |
| Figure 15: Instructional Staff Next Year Retention Rate | 16 |
| Figure 16: 1st Year Instructional Staff Five-Year Retention Rate | 17 |
| Figure 17: Number of Teachers by Age Group | 18 |



EXECUTIVE SUMMARY

Introduction

Staffing challenges are among the most significant concerns cited by Idaho's local education agencies (LEAs). Given the important role that experienced educators play in student success, understanding the factors that influence the state's educator pipeline are key to driving continuous improvement in policy and practice in our state. A report on Idaho's educator pipeline has been developed for the State Board of Education annually since 2016 (excepting 2020 and 2021 due to the impact of the COVID-19 pandemic).

This report examines educator supply and demand across the last five years, and in keeping with previous submissions, focuses primarily on instructional staff (teachers). In addition, the report also contains some important data regarding other certificated staff, including administrators and pupil services staff.

During the 2022-2023 school year, Idaho's public education system served 318,979 students across grades K-12 with an instructional staff of 19,160 teachers, 1,016 school administrators, and 1,545 pupil services staff.

Because all students deserve a high-quality education, it is important to ensure that they are served by high-quality teachers who are skilled in content knowledge and pedagogy, and who are prepared to support the complex academic needs of students.

Teachers persist in their profession when they feel that they are valued, that their work is important, and have the support to develop the competence needed to meet the many responsibilities and complex student needs. Veteran teachers, in addition to novice teachers, have varied needs and are at different stages in their career. For these reasons it is crucial to remain focused on the issues that impact teacher recruitment and retention.

References and national recommendations for improving teacher recruitment and retention are provided at the end of the report.

Key Findings

Idaho schools struggle to fill open positions.

 Several specific areas of teaching are identified as shortage areas in Idaho's 2023-2024 Teacher Shortage Area report. Shortages exist in areas such as special education, elementary core subjects, and mathematics.

• The use of alternative pathways to certification is increasing across the state.

Alternative authorizations and emergency provisional certifications are being requested by local education agencies at a higher rates in 2023 than in 2019. Central and East Central Idaho are more impacted than other parts of the state.

• Idaho's five-year teacher retention rate is low.

While nearly 10% higher than the national average, Idaho's five-year retention rate for new teachers is only 63%.

Teacher salaries are not yet competitive.

 Despite significant increases made in recent years, Idaho's average teacher salary remains among the lowest 10 in the nation, and is lower than in all but one adjacent state.

Idaho's teacher population is aging.

The age range of 40-55 is increasing at a higher rate than other age groups. The age group 30 and younger is growing more slowly than in previous years.



EDUCATOR STAFFING

Educator Staffing

The table below shows Idaho's educator staffing levels for the last five years. The table specifically identifies the actual employee count, the full time equivalent (FTE) total, total base salaries for the state, and the full time equivalent (FTE) average base salary by role and school year.

| | Role | Actual Employ- ee Count | FTE Employee Total | Total Base Salaries | FTE Average Base Salary |
|-----------|---|---|---|--|--|
| | District Administrators | 419 | 363.15 | \$39,336,263 | \$108,320 |
| 2022-2023 | School Administrators | 1,016 | 947.37 | \$86,482,949 | \$91,287 |
| | Pupil Services | 1,545 | 1,447 | \$88,006,654 | \$60,803 |
| | Instructional | 19,160 | 18,258.94 | \$1,014,775,446 | \$55,577 |
| | | 22,140 | 21,016.86 | \$1,228,601,313 | \$58,458 |
| | Role | Actual Employ- ee Count | FTE Employee Total | Total Base Salaries | FTE Average Base Salary |
| | District Administrators | 401 | 344.82 | \$35,625,841 | \$103,317 |
| 2021-2022 | School Administrators | 1,041 | 941.28 | \$80,261,605 | \$85,269 |
| | Pupil Services | 1,515 | 1,399.87 | \$82,145,636 | \$58,681 |
| | Instructional | 19,262 | 18,097.34 | \$963,330,751 | \$53,231 |
| | | 22,219 | 20,783.31 | \$1,161,363,833 | \$55,880 |
| | Role | Actual Employ- ee Count | FTE Employee Total | Total Base Salaries | FTE Average Base Salary |
| | District Administrators | 393 | 334.27 | \$32,904,724 | \$98,438 |
| 2020-2021 | School Administrators | 1,017 | 920.62 | \$75,237,606 | \$81,725 |
| | Pupil Services | 1,447 | 1,336.81 | \$75,176,023 | \$56,235 |
| | Instructional | 18,971 | 17,777.98 | \$905,838,768 | \$50,953 |
| | | 21,828 | 20,369.68 | \$1,089,157,121 | \$53,470 |
| | Role | Actual Employ- ee Count | FTE Employee Total | Total Base Salaries | FTE Average Base Salary |
| | | cc Count | | | |
| | District Administrators | 388 | 328.49 | \$32,603,103 | \$99,251 |
| 019-2020 | | | | \$32,603,103 \$73,837,540 | • |
| 2019-2020 | | 388 | 328.49 | | \$99,251 |
| 2019-2020 | School Administrators | 388 997 | 328.49 878.61 | \$73,837,540 | \$99,251 \$84,039 |
| 2019-2020 | School Administrators Pupil Services | 388 997 1,435 | 328.49 878.61 1,326.70 | \$73,837,540 \$74,997,855 | \$99,251 \$84,039 \$56,530 |
| 2019-2020 | School Administrators Pupil Services | 388 997 1,435 21,426 | 328.49 878.61 1,326.70 17,252.29 | \$73,837,540 \$74,997,855 \$894,761,873 | \$99,251 \$84,039 \$56,530 \$51,863 |
| 2019-2020 | School Administrators Pupil Services Instructional | 388 997 1,435 21,426 24,246 Actual Employ- | 328.49 878.61 1,326.70 17,252.29 19,786.09 FTE Employee | \$73,837,540 \$74,997,855 \$894,761,873 \$1,076,200,371 Total Base | \$99,251 \$84,039 \$56,530 \$51,863 \$54,392 FTE Average |
| | School Administrators Pupil Services Instructional Role | 388 997 1,435 21,426 24,246 Actual Employ- ee Count | 328.49 878.61 1,326.70 17,252.29 19,786.09 FTE Employee Total | \$73,837,540 \$74,997,855 \$894,761,873 \$1,076,200,371 Total Base Salaries | \$99,251 \$84,039 \$56,530 \$51,863 \$54,392 FTE Average Base Salary |
| | School Administrators Pupil Services Instructional Role District Administrators | 388 997 1,435 21,426 24,246 Actual Employ- ee Count 402 | 328.49 878.61 1,326.70 17,252.29 19,786.09 FTE Employee Total 327.95 | \$73,837,540 \$74,997,855 \$894,761,873 \$1,076,200,371 Total Base Salaries \$31,525,265 | \$99,251 \$84,039 \$56,530 \$51,863 \$54,392 FTE Average Base Salary \$96,128 |
| 2019-2020 | School Administrators Pupil Services Instructional Role District Administrators School Administrators | 388 997 1,435 21,426 24,246 Actual Employ- ee Count 402 940 | 328.49 878.61 1,326.70 17,252.29 19,786.09 FTE Employee Total 327.95 849.40 | \$73,837,540 \$74,997,855 \$894,761,873 \$1,076,200,371 Total Base Salaries \$31,525,265 \$69,501,299 | \$99,251 \$84,039 \$56,530 \$51,863 \$54,392 FTE Average Base Salary \$96,128 \$81,824 |

EDUCATOR CERTIFICATES

Certification Requirements

Educators in Idaho must meet the requirements established by statute and administrative rule to be eligible to work in an Idaho public school district or charter school. Figure 1 below shows the total number of individuals who hold an educator certification. The number of individuals who hold an instructional certification (teachers) stands in contrast to the total number of teachers employed by LEAs as reported in Table 1 (previous page). In 2022-2023, Idaho had 19,160 teachers actively working in the field. This means that approximately 9,000 teachers who hold active instructional certificates were not serving in a teaching role.

More research would be necessary to understand the factors influencing the discrepancy between certificated teachers working in the filed and certificated teachers who are not working in the field.

In recent years, national research has suggested that multiple pathways to certification can help improve teacher recruitment. These best practices are reflected in our state. Idaho offers several pathways to educator certification: traditional, non-traditional, alternative, and emergency. Additionally, a new apprenticeship pathway is currently in development with an anticipated roll out in spring of 2024.

Traditional and Non-Traditional Preparation

Idaho offers several traditional and non-traditional pathways to certification. Individuals who have completed a traditional educator preparation program at an Idaho college or university can seek to apply for an initial five-year standard Idaho certificate. Individuals who have completed a non-traditional educator preparation program can seek to apply for a three year interim Idaho certificate with the State Department of Education.

Applicants from out of state must have completed an educator preparation program and/or hold a current valid certificate in another state. The out of state applicant can seek to apply for a three year interim certificate. Interim certificates have additional requirements that must be met before the individual

may apply for a standard five year Idaho certificate.

Educators are required to renew a standard certificate every five years and must submit evidence of completion of six credits with their renewal application. At least three of those credits must be transcripted credit.

Idaho currently has 2,906 individuals who have an administrator certificate, 27,997 individuals who have an instructional staff certificate, 2,593 individuals who have a pupil service staff certificate, and 1,798 individuals who have a career technical education staff and administrators certificate.

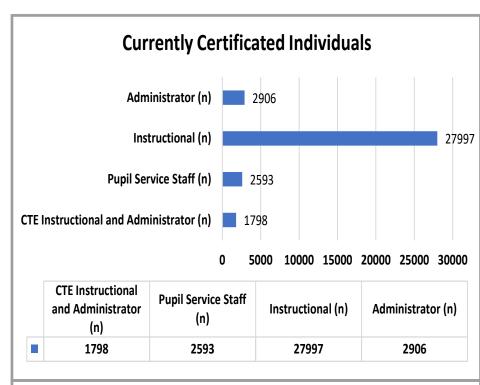




Figure 1: Currently Certificated Individuals

EDUCATOR PREPARATION ENROLLMENT AND COMPLETERS

Education Preparation Providers

Every Idaho student deserves a high-quality, learner-ready educator. Idaho has a total of ten educator preparation providers tasked with preparing new teachers to enter the field. Idaho has both traditional and non-traditional educator preparation programs. Each program provides different pathways to an educator certification.

Traditional education preparation providers:

- Boise State University
- Brigham Young University—Idaho
- College of Idaho
- Idaho State University
- Lewis-Clark State College
- Northwest Nazarene University
- University of Idaho

Non-traditional education preparation providers:

American Board (ABCTE)

- College of Southern Idaho
- Lewis-Clark State College
- Teach for America—Idaho.

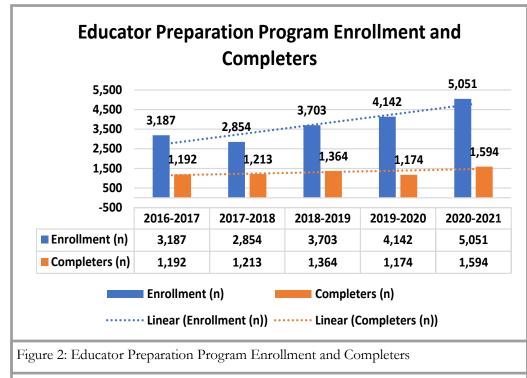
Idaho's annual Title II report, available online at Title II - Welcome (ed.gov), examines educator preparation program enrollment count and completer count in detail. Figure 9 below summarizes enrollment and completer trends from the 2016-2017 school year through the 2020-2021 school year across all educator preparation programs.

The most current Title II report reflects data from the 2020-2021 academic year report. The state was required to verify the 2021-2022 report by the end of October, 2023. More recent data will be available next year.

In each of the last five years, there has been a gap between the number of enrollments and the number of completers. While the gap widened during the pandemic years, it appears to have been increasing pre-pandemic. Specifically, the count of educator preparation program enrollment has seen a steady

increase from 2018-2019 to 2020-2021. In contrast, the count of educator preparation program completers has increased at a much slower pace.

As the widening of gap began prepandemic, it will be important to evaluate whether the trend has continued as 2022 and 2023 data become available to determine whether the pre-pandemic levels represent a more consistent range or are indicative of a new trend.



EDUCATOR ALTERNATIVE CERTIFICATES

Alternative Authorizations

Various alternative and non-traditional routes to educator certification are defined in IDAPA 08.02.02 subsections 016, 021, and 042.

Alternative Authorizations are used by school districts and charter schools looking to fill a position with a candidate who does not hold an appropriate certificate and endorsement. The Alternative Authorization allows for the district or charter school to hire educators to work as a certificated educator while completing the requirements for full certification. An Alternative Authorization grants a three year interim certificate that allows the individual to serve as the teacher of record while pursuing standard certification.

Emergency Provisional Certificates

An Emergency Provisional certificate allows a school district and charter school to request a one year certificate/endorsement in an emergency situation for a teacher who does not hold the required Idaho certificate/endorsement and is not otherwise qualified to pursue other alternative authorization pathways. An emergency provisional certificate may be used to fill a position as long as the candidate has completed 2 years of college education and the district has declared an emergency.

The figures on the next two pages show the count of alternative certificates issued by region by year. The highest number of educators are employed in region 3 (southwest Idaho). However, this region, the most urban region of Idaho, has a relatively low usage rate for alternative authorizations.

The data also indicate that region 4 and region 6, which are more rural areas of the state, have higher usage rates of alternative authorizations than other regions. Interestingly, region 4 also has the highest usage rate of emergency provisional certifications. Based on this data, it appears that teacher recruitment remains most difficult in rural areas of the state.

It may be important to further study the impact of



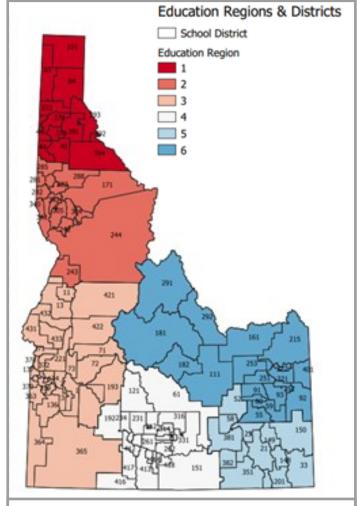


Figure 3: Idaho Education Regions and School Districts

physical proximity to the state's boarder on the district or charter school's usage rate of alternative authorizations and emergency certifications.

Rural / Underserved Educator Incentive Program

Section 33-6501, Idaho Code establishes the Rural and Underserved Educator Incentive program to assist teachers who work and live in rural areas. Grants awards are limited to \$12,000 over four years of continued eligibility. During the 2022-2023 school year, 496 awards were dispersed to selected awardees. During the 2023-2024 application cycle, 338 applications have been received. The program is administered by the Office of the State Board of Education.

WORK SESSION AUGUST 21, 2024

EDUCATOR ALTERNATIVE CERTIFICATES

Educator Alternative Certificates

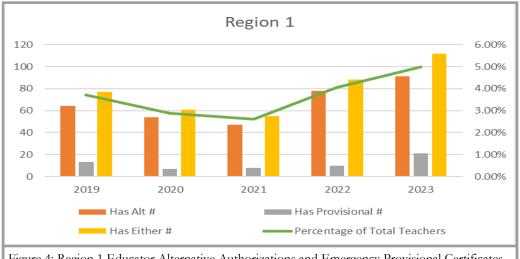
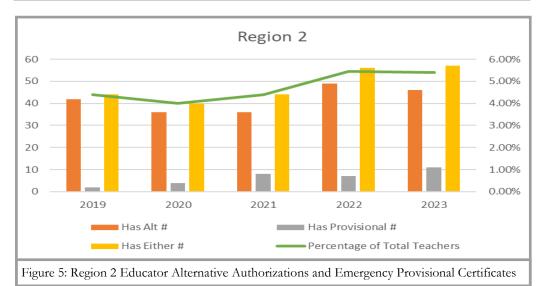
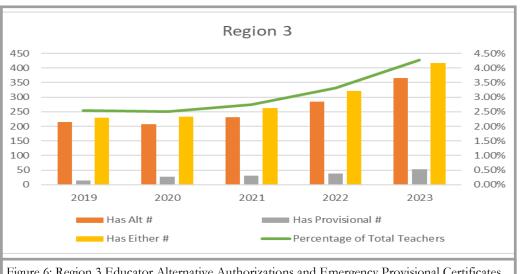


Figure 4: Region 1 Educator Alternative Authorizations and Emergency Provisional Certificates

Over 5% of the teacher certificates in region 1 are identified as an Alternative Authorization or Emergency Provisional certificate. Alter-Authorizations native and/or Emergency Provisional certificates are issued when a local education agency has unfilled position.



Over 5% of the teacher certificates in region 2 are identified as an Alternative Authorization Emergency Provisional certificate.



Just over 4% of the teacher certificates in region 3 are identified as an Alternative Authorization or Emergency Provisional certificate. Region 3 has the lowest percentage of Alternative Authorizations and Emergency Provisional certificates.

Figure 6: Region 3 Educator Alternative Authorizations and Emergency Provisional Certificates



EDUCATOR ALTERNATIVE CERTIFICATES

Educator Alternative Certificates

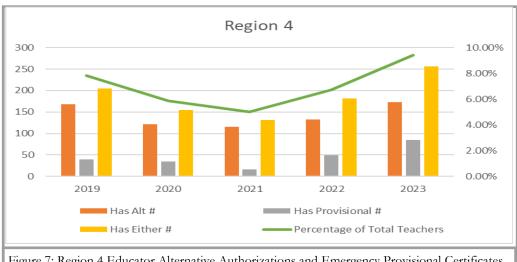
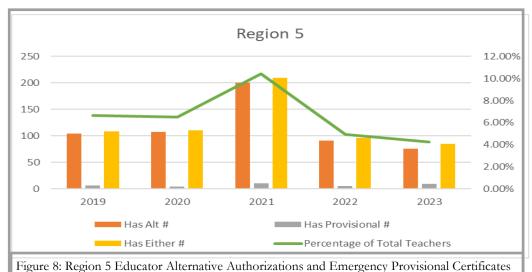


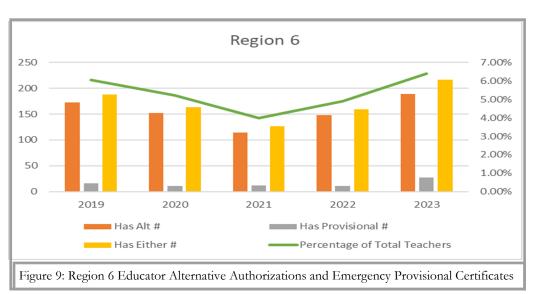
Figure 7: Region 4 Educator Alternative Authorizations and Emergency Provisional Certificates

Just over 8% of the teacher certificates in region 4 are identified as an Alternative Authorization or Emergency Provisional certificate. Region 4 has the highest percentage of Alternative Authorizations and Emergency Provisional certificates.



er certificates in region 5 are identified as an Alternative Authorization or Emergency Provisional certificate. Region 5 has the second lowest percentage of Alternative Authorizations and Emergency Provisional certificates.

About 4% of the teach-



About 6% of the teacher certificates in region 6 are identified as an Alternative Authorization or Emergency Provisional certificate. Region 6 has the second highest percentage of Alternative Authorizations and Emergency Provisional certificates.



TEACHER SHORTAGE AREAS

Teacher Shortage Area Report

Idaho submits a teacher shortage area report to the U.S. Department of Education each year. That report can be found at <u>TSA (ed.gov)</u>. A summary of the findings is presented in Table 3 below. Educator shortage is a concern for states across the nation and educator shortages vary by state. Common teacher shortage areas include special education, math, science, career technical education, and English as a second language. Other common staffing shortages include speech and language pathologists, occupational therapists, physical thera-

| | 2023-2024 | _ |
|--------------------------------------|--|---|
| Subject Matter | Discipline | Grades |
| Art and Music Education | Visual and Performing Arts | Pre-K, K, 1, 2, 3, 4, 5, 6, 7 8, 9, 10, 11, 12 |
| Career and Technical Education | Agricultural Science and Technology | 6, 7, 8, 9, 10, 11, 12 |
| Career and Technical Education | Family and Consumer Science | 6, 7, 8, 9, 10, 11, 12 |
| Core Subjects | Elementary Education | Pre-K, K, 1, 2, 3, 4, 5, 6, 7 |
| Health and Physical Fitness | Physical Education | Pre-K, K, 1, 2, 3, 4, 5, 6, 7 8, 9, 10, 11, 12 |
| Mathematics | Basic and Advanced Mathematics | 6, 7, 8, 9, 10, 11, 12 |
| Science | General Science | 6, 7, 8, 9, 10, 11, 12 |
| Special Education | All Exceptionalities | Pre-K, K, 1, 2, 3, 4, 5, 6, 7 8, 9, 10, 11, 12 |
| Support Staff | Counseling | Pre-K, K, 1, 2, 3, 4, 5, 6, 7 8, 9, 10, 11, 12 |
| Support Staff | Psychologist | Pre-K, K, 1, 2, 3, 4, 5, 6, 7 8, 9, 10, 11, 12 |

Table 2: Teacher Shortage Area Report, 2023-2024

pists, psychologists, nurses, and social workers Not surprisingly, these same shortages are evidenced in Idaho.

Idaho had teacher shortage areas before the pandemic, but the shortage areas were exacerbated by the pandemic. The extent to which the teacher shortages are localized indicates that these shortages are particularly worse in locations in which the salary is not competitive with near-by communities (i.e. boarder communities).

Despite the shortages, superintendents and school leaders must provide educational services and hire teachers to fill the vacancies. Hence, the increase in Alternative Authorizations and Emergency Provisional Certificates being issued.

Furthermore, the <u>Ida-ho's Teacher Workforce</u> report shows a gap between teacher employment projections and actual employment and is further shown in Figure 10.



PROJECTIONS AND PUBLIC K-12 STUDENT ENROLLMENT

Employment Projections

Idaho's Department of Labor produces 10-year employment projects and the most recent being the 2020-2030 period. When comparing projections to the actual instructor counts, there has been a gap for the last four years. The average annual growth rate for teacher occupations is projected to be 1.52% while the actual annual growth rate has been 1.87%. Idaho is not recruiting enough new teachers to the field to meet current employ-Figure 10 also ment needs. shows that Idaho has an increased need for teachers well into 2030.

K-12 Student Enrollment

An important factor in evaluating the educator pipeline is the rate of student enrollment in Idaho. The Idaho State Department of Education's data, Figure 11, reports a total public school enrollment of 318,979 in the 2022-23 school year. Despite a dip in enrollment during the pandemic, student enrollment in Idaho has increased significantly over the last five years.

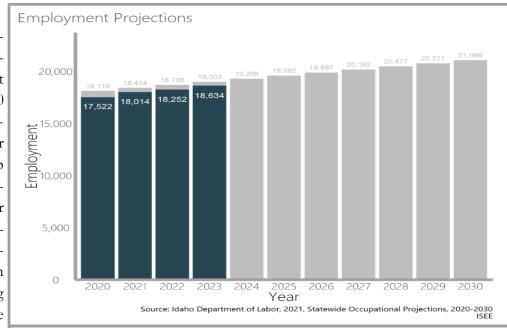


Figure 10: Teacher Employment Projections

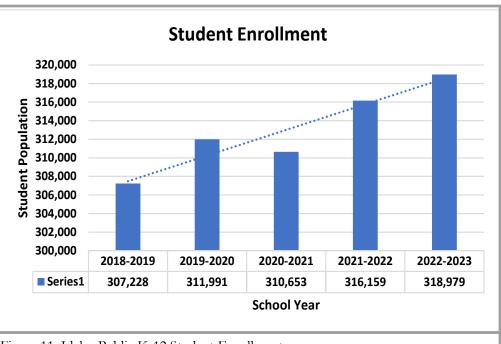


Figure 11: Idaho Public K-12 Student Enrollment

The rate of public K-12 student enrollment growth that has occurred in Idaho in recent years does not appear to be matched by the rate of completers of traditional programs alone. More teachers are needed to fill open positions now, and based on both the workforce projections of employment needs in the field and the steady growth of the K-12 student population, this need will likely continue to grow.



IDAHO POPULATION GROWTH

Idaho Population Growth

Idaho's population has grown significantly over the last few decades, increasing from a census count of 1,293,953 in 2000 to a count of 1,567,582 in 2010 and 1,839,106 in the 2020 census. Most of this growth, especially in the most recent decade, is due to domestic migration into the state, not to a high birth rate. In fact, the absolute annual number of births has been quite low and stable since the Great Recession despite sizable overall population growth. This suggests that future growth of the state's K-12 student population depends on continued in-migration of families with school age children. The Idaho Department of Labor projects a 1.1% annual population growth rate through 2031, raising the population to well over 2.1 million.

Where Does Growth Occur?

Though Boise's population has grown significantly over the last few decadesfrom 197,735 in 2001 to 237,446 in 2021—there has been much more explosive growth in its suburbs and exurbs, both in absolute and relative terms.

Meridian, currently the state's second largest city in terms of population, grew from a mere 41,255 residents in 2001 to a whopping 125,963 in 2021. Nampa, meanwhile, grew from a population of 57,536 in 2001 to 106,186 in 20-21.

As shown in the table to the right, growth continues to be strong in these cities and others in the region Table 3: Idaho Population Growth such as Kuna, Caldwell, Star,

| | | 2021-22 | |
|----|---------------|--------------------|-----------------------------|
| | City | 2022 Population | Population Growth From 2021 |
| 1 | Nampa | 110,951 | 4,426 |
| 2 | Meridian | 129,736 | 3,962 |
| 3 | Caldwell | 65,920 | 2,039 |
| 4 | Star | 14,646 | 1,687 |
| 5 | Post Falls | 44,194 | 1,531 |
| 6 | Twin Falls | 54,300 | 803 |
| 7 | Garden City | 12,927 | 619 |
| 8 | Sandpoint | 9,777 | 617 |
| 9 | Kuna | 27,229 | 616 |
| 10 | Coeur d'Alene | 56,733 | 588 |

and Garden City. There is also robust growth in the northern cities of Post Falls, Sandpoint, and Coeur d'Alene and in Twin Falls.

If we assume that the new residents of these cities contain an average or above average proportion of K-12 age children, these will be the places where new teachers, other staff, and perhaps school buildings will be most necessary. However, there is some reason to question this assumption, especially in the northern cities on the list because northern Idaho has attracted a disproportionate number of retirees, who are unlikely to have school -age children.

It is of note to mention that Idaho's 10 year projected growth rate for teachers is 16.3% compared to 8.9% in the nation as indicated in the <u>Idaho's Teacher Workforce</u>. Idaho is in the top 10 of states with the highest projected growth rates for teachers. More specifically, Idaho is sixth. Only Utah, Colorado, Washington, Arizona, and New York have higher projected growth rates for teachers than Idaho.



TEACHER SALARIES

Salary Increases

In 2016, the Idaho Legislature established the Career Ladder for educator salaries in Section 33-1004B, Idaho Code. In recent years, this was amended to increase the base salary to \$40,000. Overall, the average teacher salary in Idaho has increased rapidly over the past few years. Figure 12 illustrates this change. Current teacher salaries average between 54,000 and 56,000.

Salary Comparisons

Despite the steady increases in recent years, teach-

er salaries continue to compare unfavorably to those in other states. Figure 13 is a heat map of average teacher salaries across the country. Idaho's average teacher salary remains among the lowest.

While Montana does have a slightly lower mean salary, all other border states have significantly higher mean salaries. This may be a factor impacting teacher retention on the whole, and may pose a particular challenge for districts on the boarders of Idaho that are adjacent to larger communities in other states.

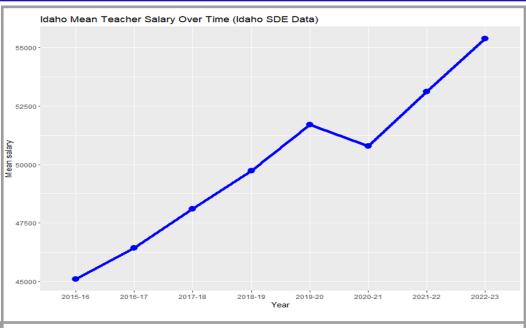


Figure 12: Idaho Mean Teacher Salary by Year

Figure 14, on the opposite page, illustrates Idaho's average teacher salary in a nationwide comparison. The national average teacher salary is \$68,716, while the Idaho average salary is \$54,105. This is significantly less the national average salary. Idaho also has a lower average salary compared to neighboring states, which makes Idaho less competitive states and particularly vulnerable to competition with Washington.

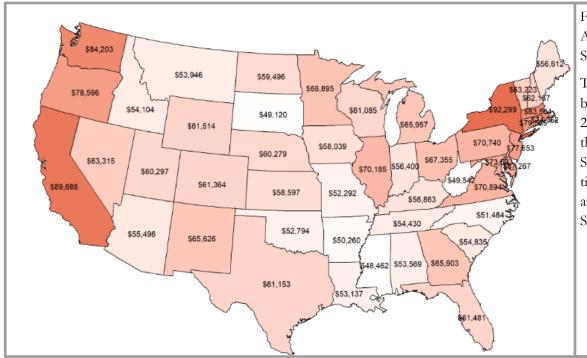


Figure 13: Idaho Average Teacher Salary by State

The average salary is based on the May 2022 estimates from the Bureau of Labor Statistics, Occupational Employment and Wage Statistics Survey.

TEACHER SALARIES

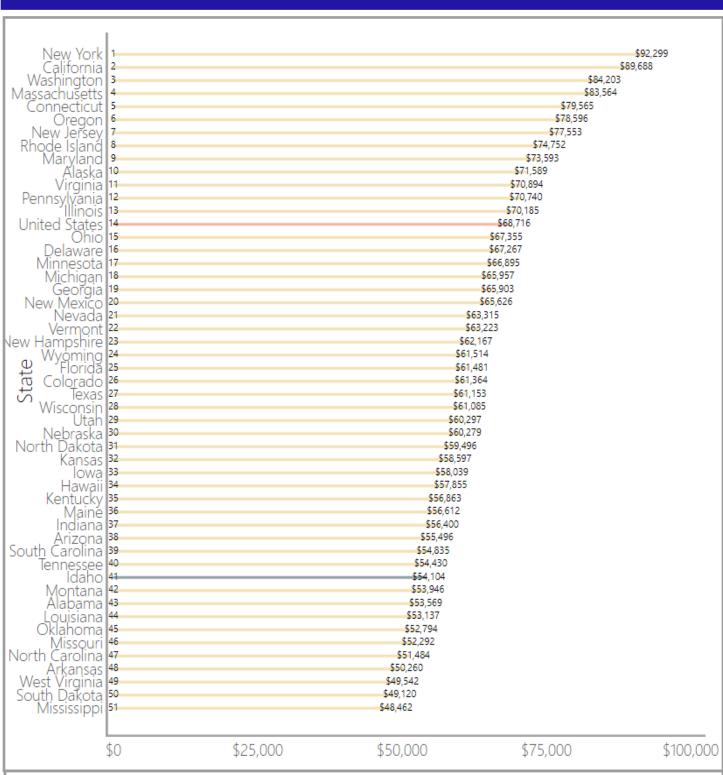


Figure 14: Idaho Average Teacher Salary State by State

The average salary is based on the May 2022 estimates from the Bureau of Labor Statistics, Occupational Employment and Wage Statistics Survey. Almost all of the states bordering Idaho report higher average annual salaries for teachers. Idaho is in the bottom 10 of states with the lowest average annual salary for teachers.



TEACHER RETENTION

Next-Year Retention Rate

Retention data can provide valuable information to guide policy and program decisions by helping to identify patterns in teacher career choices, particularly around the choice to leave the filed. Idaho's next-year teacher retention rate is comparable to the national average. This retention measure considers the percentage of teachers employed in one year that are reported as teacher of record the following year.

Idaho's next year teacher retention rate for the last five years is represented in Figure 16. The 2022-2023 next year retention rate in Idaho was 88% as compared to an averaged 2022-2023 national next year retention rate of 90% as reported by Rand Corporation.

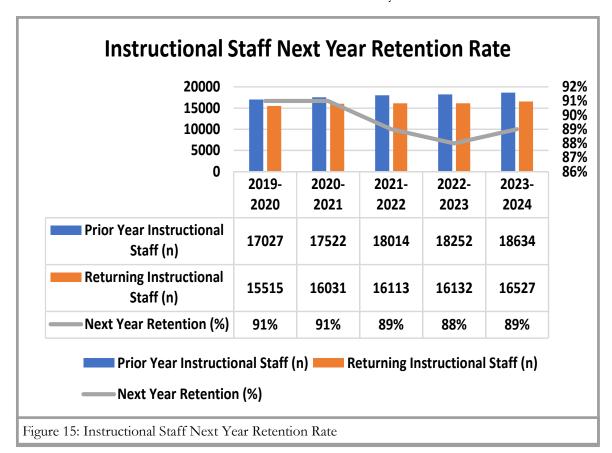
It is important to also consider turnover rates. The pre-pandemic next-year teacher turnover rate was highest in the southern part of the country at 16.7% and the lowest in the northeast at 10.3% as

reported by the Learning Policy Institute. With a turnover rate of 12%, Idaho's next-year teacher turnover rate is relatively low.

Unfortunately, Idaho is not only faced with solving for a 12% turnover rate on the whole, it is also faced with solving for a regular shortfall in meeting the workforce needs of the field, as well as a steadily growing K-12 student population.

High-quality training is an integral part of developing high-quality teachers. An emphasis on recruitment, preparation, training, and retention of teachers is of the utmost importance. Some important components of teacher retention include strong teacher preparation and support, competitive salaries, and supportive working environments that provide professional development and mentoring.

Although short-term retention rates are relatively high in Idaho, longer-term retention rates tell a different story.





TEACHER RETENTION

Five Year Retention Rate

The five-year retention rate of early career teachers, while slightly higher than the national average, is still low and trending down. This poses an opportunity for policy makers to focus on implementing stronger mentorship programs for new teachers.

The five-year retention rate of first year teachers in Idaho has ranged between 63%-68% over the last five years. A national study conducted by the University of Pennsylvania reported that 10% of new teachers leave the occupation in one year, and that 44% of new teachers leave the occupation within five years.

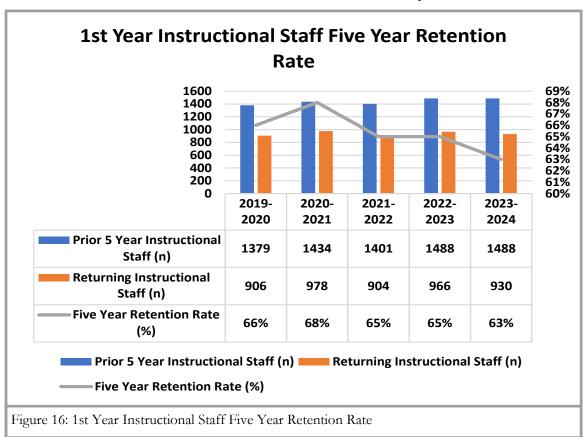
A larger percentage of early career teachers, after completing all certification requirements, are still choosing to leave the field of education within five years. Not only does this pose a retention problem in a rapidly growing state, it also poses a problem of expertise and mentorship.

As 32-37% less teachers leave before they enter the

middle of their career, this can create a gap of experience. It is important to increase retention of new teachers and provide development and support in order for those new teachers to become veteran teachers.

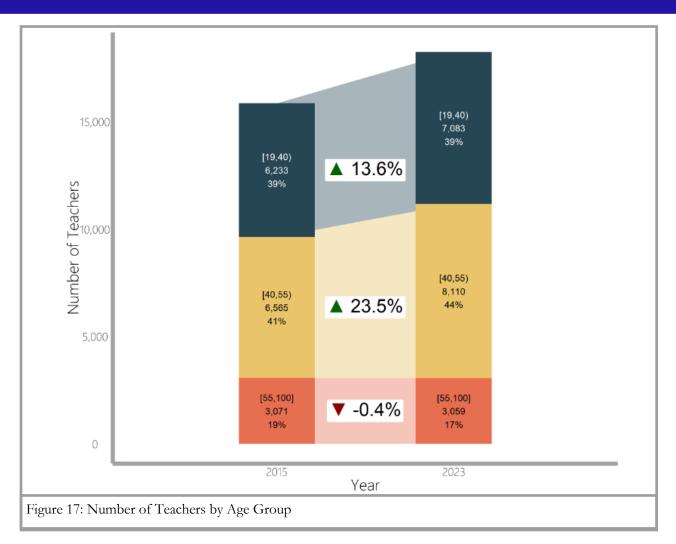
Mentorship Needs

Sections 33-1201A and 33-512, Idaho Code require all new teachers to be mentored by experienced teachers for the first three years of their careers. Several factors, including a school's rural location and the unfunded nature of the mandate, can make meeting this requirement a difficult task. Regardless, educators need access and opportunity to engage in professional development and mentorship that is appropriate to the stages of their careers in order to remain effective. With this in mind, the Board is launching a statewide mentorship and professional development platform in 2024. The program is funded for a 2-year pilot by federal covid relief funds. Implementation data will be monitored for impact on retention rates.





TEACHER RETENTION



Aging Teacher Population

A final important factor to consider when evaluating the educator pipeline is that Idaho's teacher population is aging. Figure 17 illustrate the change in teacher age by age band.

Between 2015-2022, the number of teachers between the age of 40-55 increased by 23.5%. In reviewing the teacher pipeline by age band, it is clear that the teacher population is aging. The age range 40-55 is increasing at a higher rate than other age groups and almost twice that of the increase seen in the age band of 20-40. These rates can be found in the <u>Idaho's Teacher Workforce</u> report.

If this trend continues, a substantial portion of Idaho's teachers are likely to retire in close succession to one another resulting in a larger teacher shortage. There is a critical need to recruit, prepare, train, and retain teachers in order to fill the retirement vacancies that will happen in close succession to one another. Furthermore, if Idaho continues to lose 32%-37% of new teachers by their fifth year, Idaho may see a widening experience gap.

Veteran teachers not only have extensive experience, but are on average more effective at raising student achievement than less experienced teachers. Teachers improve their skills and effectiveness through experience, professional development, and mentorship from more experienced and veteran teachers. Therefore, a focus on ongoing professional development and mentoring to increase the experienced teaching workforce and increased efforts to retain experienced and effective teachers is imperative.



NATIONAL RECOMMENDATIONS

Raise the Bar: Lead the World

Raise the Bar: Lead the World is the U.S. Department of Education's call to action to transform P-12 education and advance equity and excellence. The U.S. Department of Education believes that when the bar is raised, all of the nation's students will build skills to succeed inside and outside of school that will support students in reaching new heights in the classroom, careers, and lives.

This initiative identifies three primary areas of focus for policy makers around the country. These include: achieve academic excellence, boldly improve learning conditions, and create pathways for global engagement.

Under the umbrella of the three primary areas of focus, several recommendations for action are outlined. The five recommendations below are aligned to the U.S. Department of Education's strategies to recruit, prepare, train, and retain teachers.

Improve teacher compensation and working conditions

Increasing teacher compensation is critical to effectively recruiting and retaining the teachers that schools need. Teachers make 24% less than comparable college graduates and this gap can inhibit people from choosing to become a teacher and/or staying in the profession.

• Promote career ladders for teachers

Career advancement and leadership opportunities that allow teachers to grow professionally and earn additional compensation while remaining in the classroom can support effective teacher recruitment, retention, and growth. With the appropriate supports, such as release time and additional compensation for additional responsibilities, teacher leader-

ship and advancement can support improved student outcomes and teacher recruitment and retention.

Support effective new teacher induction and ongoing professional learning

- To succeed in the classroom, new teachers need not only high-quality educator preparation programs with robust clinical experience, they also need effective induction programs that provide jobembedded professional development and support. Effective induction and ongoing, high-quality professional learning are critical to teacher retention and to maximizing the impact of teachers on student achievement and other positive student outcomes.

Support high-quality and affordable educator preparation

- Expanding access to high-quality and affordable educator preparation is critical to eliminating educator shortages and providing students with the high-quality teachers they need to succeed.
- Registered Apprenticeship Programs can be an effective, high-quality "earn-andlearn" model that allows candidates to obtain their teaching credential while earing a salary by combining coursework with structured, paid on-the-job learning experiences with a mentor teacher.

Promote educator diversity

 Increasing the diversity of our educator workforce is critical to supporting the academic success of all students. Studies suggest that all students, and particularly students of color, benefit from having teachers of color.



WORK SESSION AUGUST 21, 2024

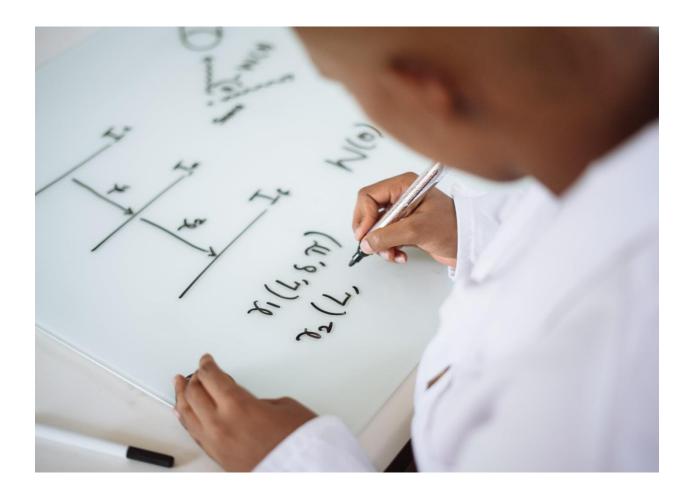
ATTACHMENT 3

REFERENCES

| SDE Public School Finance | 3 |
|---|-------|
| Idaho State Department of Education Certification Lookup Application; <u>SDE Certification Tool</u> | 6 |
| Title II Idaho State Report; <u>Title II Reporting</u> | 7 |
| Idaho State Department of Education; Alternative Authorizations, <u>Alternative Authorizations & Non-Traditional Routes Issued / Professional Standards Commission / Certification & Professional Standards / SDE (idaho.gov)</u> | 8-10 |
| Title II Idaho State Report; <u>Title II Reporting</u> | 10 |
| Teacher Shortage Area Report; <u>TSA (ed.gov)</u> | 11 |
| Office of the Idaho State Board of Education; <u>Idaho's Teacher Workforce</u> | 11 |
| Idaho Department of Labor, Teacher Employment Projections | 12 |
| Idaho State Department of Education; K-12 Enrollment | 12 |
| Idaho Department of Labor; Idaho Population Growth | 13 |
| Idaho State Department of Education, Teacher Salaries | 14 |
| Bureau of Labor Statistics, Occupational Employment and Wage Statistics Survey | 14-15 |
| Idaho State Department of Education, Teacher Salaries | 15 |
| 2021 National Teacher and Principal Survey; Teacher Salaries | 15 |
| Educator Turnover Has Markedly Increased, but Districts Have Taken Actions to Boost Teacher Rankings; https://www.rand.org/content/dam/rand/pubs/research_reports/RRA900/RRA956-14/RAND_RRA956-14.pdf | 16-17 |
| Teacher Turnover: Why it Matters and What We Can Do About It; https:// https:// learningpolicyinstitute.org/sites/default/files/product-files/ Teacher Turnover REPORT.pdf ; | 16-17 |
| Teacher Retention: A Growing Problem; <u>Teacher Retention: A Growing Problem</u> (nsba.org) | 16-17 |
| Idaho State Department of Education; Teacher Retention Rates | 16-17 |
| Office of the Idaho State Board of Education; <u>Idaho's Teacher Workforce</u> | 18 |
| Raise The Bar: Lead the World; Raise the Bar: Eliminate the Educator Shortage U.S. Department of Education | 19 |



2023 Math Work Group



Findings and Recommendations Report January 2024

Table of Contents

| SECTION 1: E | EXECUTIVE SUMMARY | 4 |
|--------------|--|------|
| SECTION 2: F | RECOMMENDATIONS | 6 |
| Introductio | n | 6 |
| Educator E | ffectiveness | 7 |
| | Grades Educator Data | 7 |
| F | tion and Certification Findings Recommendations | |
| New Cei | g Professional Learning: Mentoring, Professional Development, Renewal, a rtifications / Endorsements | |
| | Recommendations | 11 |
| Standards, | , Curriculum, Instruction, and Assessment | 13 |
| F | AT Math Data Findings Recommendations | |
| CTE & STE | M Integration | 18 |
| STEM D | ataindings | 19 |
| | Recommendations | |
| MATH WORK | GROUP MEMBERS | . 21 |
| REFERENCES | S | . 22 |
| • • | Summary of LEA Survey Results Proposed Middle School Math & CTE 7 th - 8 th Grade Programs Integration Project | |

DISCLAIMER

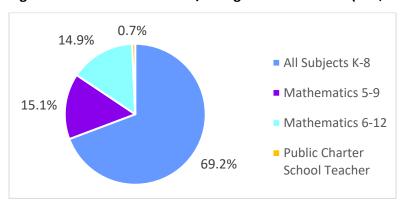
This report is a working document produced by the 2023 Math Work Group, a temporary work group convened to provide the Idaho State Board of Education with recommendations to improve math achievement. The recommendations presented here are the opinions of the 2023 Math Work Group and not necessarily that of the Board unless explicitly accepted by them

SECTION 1: EXECUTIVE SUMMARY

The purpose of this section is to provide a compact overview of the highest priority findings and recommendations found in the Middle Grades Math Work Group Report.

Educator Effectiveness

Figure 1: Certifications of MS / Jr High Math Teachers (n=1,447)



Findings

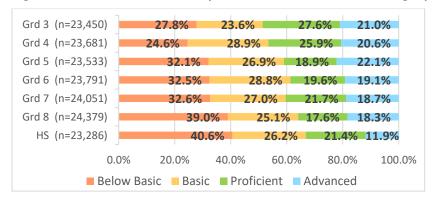
- The majority (69%) of middle school and junior high math teachers have an All Subjects K-8 certificate.
- Our data process does not currently enable tracking of non-endorsement math learning by educators.

Priority Recommendation

Work together with the Department and Regional Math Centers to develop professional learning pathways for educators to increase their mathematical knowledge for teaching. Consider use of microcredentialing within the pathways and adjust renewal requirements and/or processes to support implementation and incentivize educator participation.

Standards, Curriculum, Instruction, and Assessment

Figure 2: 2022-23 ISAT Math, by Grade and Performance Category



Findings

 Given that less than 50% of students in all tested scored proficient or advanced, it is clear that supports are needed to improve K-12 instruction and achievement.

Priority Recommendation

Engage a work group to develop a K-12 Comprehensive Math Plan and set a 5-year update cycle.

Math Work Group Report - January 2024

STEM and CTE Integration

Figure 3: Percentage of Students Engaged, 2018-2021

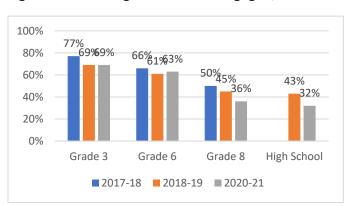
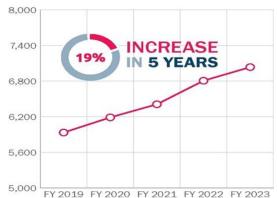


Figure 4: CTE Concentrators, 2018-2023



Findings

- Idaho educators face challenges in addressing student engagement and math self-perception and motivation. National data indicates these factors impact students' math achievement.¹
- Engagement survey data from the FY 22 AOC Report (Figure 3) shows a decrease in student engagement in the middle and high school grades. However, CTE concentrations increased during this time and qualitative reports indicate engagement is strong in STEM programs.

Priority Recommendation

Build a cross-agency collaboration between the Board, SDE, CTE, STEM Action Center, Workforce Development Council, and the Regional Math Centers to create and implement a campaign to address math culture in the state.

Idaho Statute

Priority Recommendation

Update Idaho statute to align to key recommendations in this report. Promote the development of budgets that will support state and LEA efforts to improve math achievement.

Additional Information

The 2023 Math Work Group's Statute Subgroup will provide the Board office with proposed statutory language and a complementary Fiscal Impact related to the following:

- Establishment of the Comprehensive Math Plan and associated requirements for K-12 and higher education to align practices to it;
- Expectations for regional math centers and provision of professional learning to improve educators' mathematical knowledge for teaching; and
- Funds and support for LEAs to improve math achievement.

¹ Rimm et al, 2014; Xiao and Sun, 2021; Zhang et al, 2021

SECTION 2: RECOMMENDATIONS

Introduction

Organization of the Report

This report is organized into recommendations within the following categories:

- Educator Effectiveness
 - Preparation, Certification, and Renewal
 - Mentoring, Professional Development, and New Certifications or Endorsements
- Standards, Curriculum, Instruction, and Assessment
- Career Technical Education (CTE) and STEM Integration

Each category's section begins with summarized background information "Findings." This section is followed by the recommendations, which are divided between Policy Recommendations for the State Board of Education and Implementation Recommendations for the State Board of Education. The recommendations are further designated as Short-term Actions or Long-term Actions.

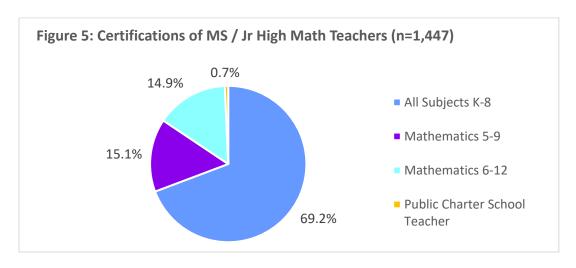
Recommendations Definitions

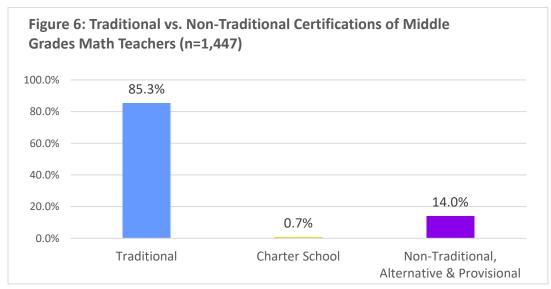
Based on Board staff's experience with the time and energy it takes to implement recommendations, the following definitions are used when referring to Short-term Actions and Long-term Actions in the Recommendations tables in Section 2.

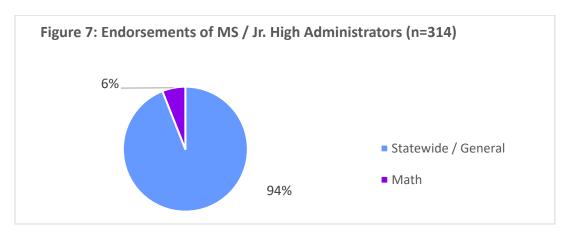
- ✓ Short-term Actions: Work on this recommendation should begin as soon as possible, with the goal that the recommendation be completed within approximately two (2) years after the Board's approval.
- ✓ Long-term Actions: While planning can begin sooner, these are recommendations that generally are expected to take more than two (2) years to come to fruition. Sometimes, these recommendations first require the completion of a Short-term Action.

EDUCATOR EFFECTIVENESS

Middle Grades Educator Data







Math Work Group Report - January 2024

Findings

- As shown above, the majority (69%) of educators assigned to middle school and junior high mathematics courses have a K-8 generalist certification.
 - In Idaho, the K-8 generalist certificate is often achieved with only one math methods course (typically called Math for Elementary Teachers).
- ➤ 14% of middle grades math teachers have a non-traditional certification.
 - This is higher than the national average (10%) and of concern since research indicates that schools with high percentages of low socioeconomic students tend to have higher percentages of non-traditionally certified teachers.^{2,3}
- Similarly, only a small percentage of middle school and junior high administrators have a math specific endorsement.

Educator Preparation and Certification

Findings

- Idaho's educator pipeline for mathematics is limited.
 - As outlined in the December 2023 Educator Pipeline report Idaho has reported a shortage of mathematics teachers, including basic and advanced math for grades 6 through 12. Further, while Idaho "had teacher shortage areas before the pandemic, but the shortage areas were exacerbated by the pandemic."⁴
 - Concerns related to the educator pipeline have prevented the Work Group from recommending more stringent certification requirements at this time.
 - The current model for funding departments of education is based on program enrollments. This may leave small, but crucial, teacher preparation programs vulnerable to closure before their impact can be realized.
- ➤ Mathematical Knowledge for Teaching (MKT) is essential for teachers to provide effective instruction, but Idaho's current certification system does not ensure that teachers receive adequate training in MKT during preparation.⁵

² National Center for Education Statistics, n.d.

³ Sutcher, Darling-Hammond & Carver-Thomas, 2016; Carver-Thomas & Darling-Hammond, 2017

⁴ Idaho State Board of Education, 2023

⁵ Mathematical Knowledge for Teaching (MKT) is the specialized knowledge that teachers need to effectively teach mathematics (Hill & Ball, 2009). Effective teaching of mathematics requires more than just knowing the subject matter of mathematics; it also involves a deep understanding of how students learn and how to convey mathematical concepts in a way that makes sense to them (Hill et. al., 2008), and this knowledge impacts student math achievement (Hill et. al., 2005). Taking traditional college math courses does not sufficiently prepare teacher candidates to teach K-12 mathematics topics well.

Recommendations – Educator Preparation and Certification

<u>Policy Recommendations – State Board of Education</u>

Short-term Actions

- Create a Math Educator Preparation Work Group.
 - The work group should be primarily comprised of experts in math educator preparation and in-the-field educators.
 - The work group's first area of focus should be to review preparation and identify how to ensure educators develop sufficient mathematical knowledge for teaching (MKT).
 - Review the preparation requirements of traditional preparation programs and alternate route programs.
 - Consider alternative methods to onboarding teachers (i.e. look at CTE onboarding approach and/or allow some PD to be completed during certification and possibly count for certification).
 - Review the requirements for teachers certified out of state.
 - c. The work group's second area of focus should be to review the approach currently used for funding Idaho's public departments of education and, if applicable, make recommendations for improvement.
 - Review other approaches to funding and identify whether a method that aligns with the purpose of educator preparation programs.

Long-term Actions

- Based on recommendations of the Math Preparation Work Group, develop and implement plans to increase the amount of MKT training educators receive during preparation.
- Based on recommendation of the Educator Preparation Funding Work Group, work with the institutions of higher education to develop and implement plans adjust how colleges / departments of education are funded.

<u>Implementation Recommendations – State Department of Education</u>

Short-term Actions

Participate in the Math Preparation Work Group

Long-term Actions

1. Based on recommendations of the Math Preparation Work Group, develop and implement plans to increase the amount of MKT training educators receive during preparation.

Ongoing Professional Learning:

Mentoring, Professional Development, Renewal, and New Certifications / Endorsements

Findings

- The Math Educator data shows a systematic gap in the level of MKT training K-8 educators receive pre-service; considerable mentoring and professional development is needed.
- Some K-8 generalists have worked to increase their math instructional practices, but have not pursued a math endorsement.
 - Current data tracking does not allow us to identify non-math endorsed K-8 generalists with substantial MKT.
 - Potential reasons educators may not complete the endorsement could include cost and availability of coursework.
 - Board policy III.E. includes a definition of microcredentials and could act as a foundation for tracking educators' microcredentials related to math.⁶

Recommendations – Ongoing Professional Learning

Policy Recommendations – State Board of Education

Short-term Actions

- Jointly develop budgets with the SDE and request legislature support for funds to expand math professional learning.
- Prioritize math in the new mentoring / professional development platform.
- 3. Outline professional learning expectations in the Comprehensive Math Plan.
- 4. Work with the SDE and RMCs to support the development of MKT professional development pathways for educators.
 - The pathways could include microcredentials and may or may not result in math endorsements.
 - Require or incentivize MKT sequence courses for renewal certification for educators with the following certificates who are teaching math: K-8 generalists, K-12 special education, secondary math.

Long-term Actions

 Consider incentivizing and/or requiring Idaho's Teacher Leader- Mathematics endorsement or microcredentialing for math instructional coaches and mentors of math teachers.

⁶ State Board of Education, 2022

<u>Implementation Recommendations – State Department of Education</u>

Short-term Actions

- 1. Identify and implement actions to improve mentoring for math teachers (K-8).
 - a. Reinforce the Idaho mentoring standards to ensure mentor pairings are content-specific.
 - b. Explore ways to facilitate mentoring and coaching across LEAs.
 - c. Identify the training expectations of mentors to ensure effectiveness.
 Provide trainings via multiple mediums (in-person, online, and at varied times).
- 2. Identify teachers with strong MKT to build a wider network of mentors and coaches.
 - Ensure the initial cadre of mentors in the state's new mentoring platform includes educators with strong MKT.
- Build upon previous efforts to engage districts and schools in quality, ongoing, focused professional development to improve math instruction.
 - a. Professional development efforts must be embedded and content connected.
 - Promote use of the ISAT interims and data to support instruction.
 - Train educators to engage in the depth and rigor of the standards.
 - Train LEAs on developing an effective PLC system.
 - b. Ensure professional development is appropriately differentiated across roles (teachers, vs. administrators, etc.).
- 4. Work with the Board and RMCs to develop professional development pathways to help educators gain MKT.
 - a. Limit implementation of the pathways to the RMCs and consider a pilot program or incentivized cohort model.
 - b. Identify appropriate ways to integrate CTE educators into the pathways.
 - Support any identified renewal requirements and work with RMCs and providers to ensure course availability.

Long-term Actions

 Work with the Board to use funds in alignment with statute and the mentoring and professional development recommendations in the Comprehensive Math Plan.

STANDARDS, CURRICULUM, INSTRUCTION, AND ASSESSMENT

ISAT Math Data

Figure 8: Longitudinal Comparison of Mean Scale Score vs. Proficiency, 2021-22 Grade 7 Cohort (n = 18,550)

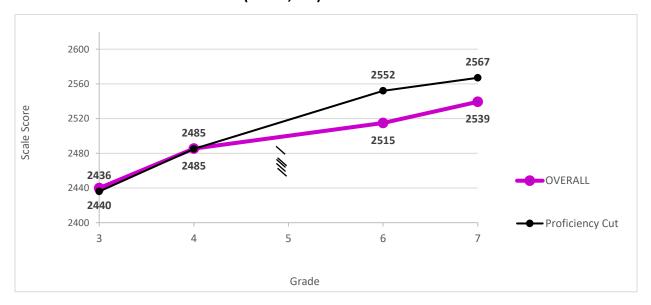
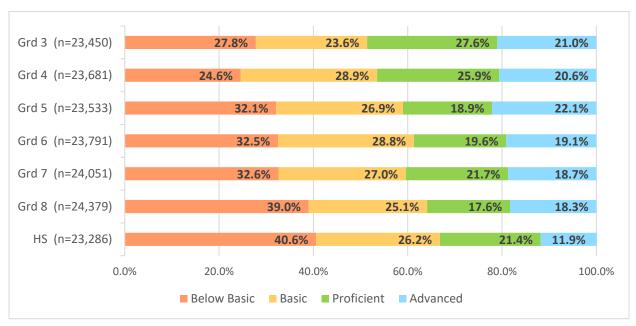


Figure 9: 2022-23 ISAT Math, by Grade and Performance Category



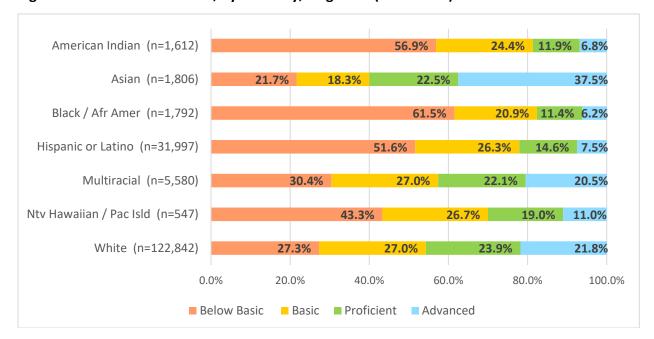
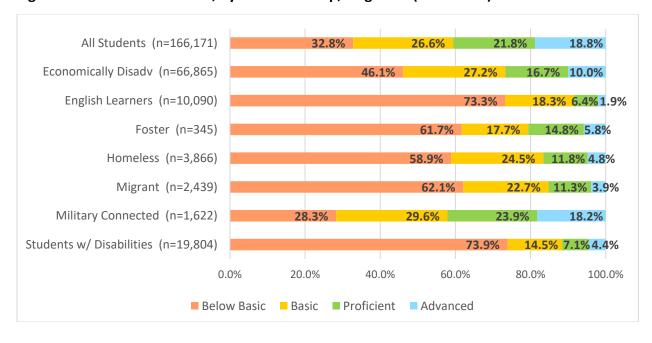


Figure 10: 2022-23 ISAT Math, by Ethnicity, all grades (3-8 and 11)





Findings

Across multiple cohorts of data (shown in Figure 4 and provided in the FY 23 AOC Report), Idaho students' mean math scale score is at or very near the proficiency cut in grades 3 and 4, but drops below the cut by grade 5 and continues to follow away from the proficiency cut score as students progress through the K-12 system.

- ➤ While scores show the biggest declines beginning in the middle grades, only 48.6% of 3rd grade students were proficient in 2023 (Figure 5). Thus, lower scores in the middle and upper grades likely stem from issues starting earlier in elementary (i.e. K-3).
- ➤ There are substantial differences in student performance based on ethnicity, with performance gaps between white students and students of color ranging from 3.1 to 28.1 percentage points.
 - The state's second largest ethnicity group, Hispanic or Latin, had 22.1% of students score proficient or advanced in 2022-23, a rate 23.6 percentage points below their White peers.
 - 18.7% of identified American Indian students scored proficient or advanced in 2022-23, a rate 27 percentage points lower than their White peers.
- ➤ ISAT Math performance gaps also exist between the all student population and students in specific subgroups, with differences ranging from 13.9 to 32.3 percentage points.
 - English Learners had the lowest rate of math proficiency amongst student groups, at 8.3%. Students' ability to participate in a language-based mathematics test likely impacts their scores.
 - Students who are economically disadvantaged, the state's largest subgroup, had a ISAT math proficiency rate of 26.7%, 13,9 percentage points lower than the all students subgroup.
 - 11.5% of students with disabilities (those receiving special education services) scored proficient or advanced in 2022-23, a rate 29.1 percentage points lower than the all students group.

Recommendations – Standards, Curriculum, Instruction, and Assessment

Policy Recommendations – State Board of Education

Short-term Actions

- Collaboratively develop budgets with the SDE and request legislative support for funds for LEAs to improve math core instruction and interventions.
- 2. Engage a work group to develop an Idaho Comprehensive Math Plan and set a 5 year cycle for updating it.
 - a. The work group should include robust representation from individuals with expertise in math education research.
 - b. The work group should include representation and/or feedback from stakeholder groups committed to serving specific student populations (EL, SPED, racial / ethnicity groups, etc.).
 - c. This plan should address both core math instruction and interventions.
 - d. This plan should include recommendations related to the amount of and use of math instructional time.
- Maintain commitment to high quality assessment that measures deeper mathematical knowledge and skills by continuing to administer the ISAT by Smarter Balanced.
 - a. Consider incentivizing use of the interim assessments and/or other resources provided through the consortium.

Long-term Actions

1. Continue to work to maintain and expand state funding focused on improving math core instruction and interventions.

<u>Implementation Recommendations – State Department of Education</u>

Short-term Actions

 Work with the Board to develop budgets and engage with the legislature to request funds to support LEAs in improving math core instruction and interventions.

Long-term Actions

1. Work with the Board to ensure LEAs are using funds in alignment with statute and the Idaho Comprehensive Math Plan.

- Adjust process for review of math curricular materials to provide more specific guidance regarding which materials are most aligned to Idaho Math Instructional Framework.
 - a. Clearly identify if there are curricula / instructional materials that districts should avoid due to substantial misalignment with Idaho's Content Standards or Instructional Framework.
- 3. Ensure all students are receiving on grade level core instruction.
 - a. Conduct a study (internally or via a contractor) to examine the prevalence of ability grouping during core (Tier 1) math instruction in elementary schools.
 - Work with LEAs to ensure all students (including subgroups such as SPED, EL, Title I) receive grade-level core math instruction.
- 4. Ensure math performance data is widely shared and provide targeted data literacy professional development.
 - a. Provide training to support educators in understanding different types of assessments and how to consistently and effectively use data.
 - Districts and schools need to understand how to use ISAT claim and target level analyses to guide professional development and curricular and instructional changes.
- 5. Conduct outreach to increase use of the full suite of tools and resources available through the ISAT by Smarter Balanced (interims, Tools for Teachers, etc.) and provide training on effective use.
- 6. Gather and provide resources to LEAs regarding best practices around implementing subject departmentalization within elementary schools⁷.
- 7. Identify highly effective districts and schools with math performance above expectations. Recognize / reward them and share their strategies.

- Based on the results of the study on ability tracking, develop and implement plans to reduce its prevalence in core math instruction, particularly in the elementary grades.
- 3. Continue to fund statewide intervention / extension materials (Ex. Imagine Learning) and provide professional development to expand LEAs' capacity of LEAs to use these materials.
- Continue to work with Smarter Balanced staff and partner states to provide expanded support for multilingual learners (English Learners) within the ISAT.

⁷ Chan & Jarman, 2004; Gerretson et. al., 2008; Hood, 2010

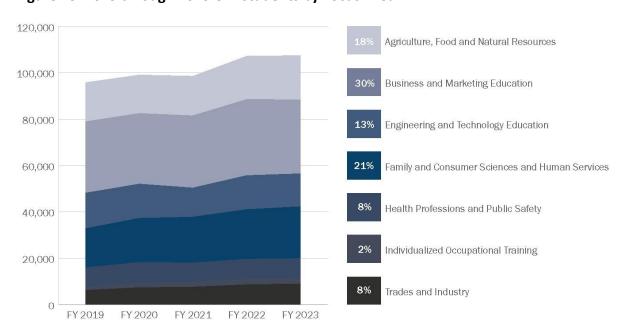
CAREER TECHNICAL EDUCATION AND STEM INTEGRATION

Career Technical Education (CTE) Data

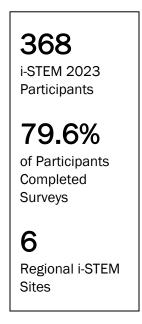
Figure 12: CTE Concentrators, 2018-2023

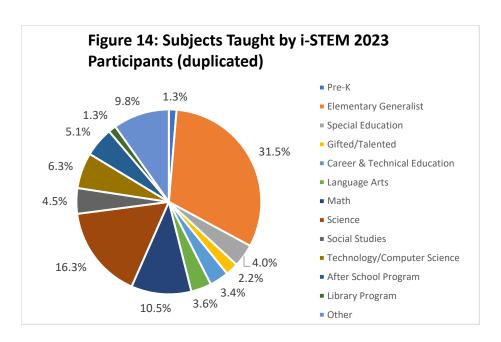


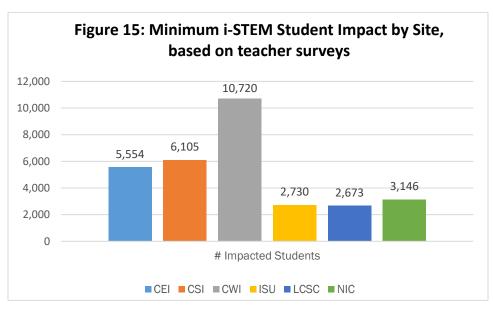
Figure 13: 2019 through 2023 CTE students by Focus Area



STEM Action Center – i-STEM Trainings Data







Findings

- An increasing number of Idaho students are participating in CTE, so ensuring CTE math is solid, relevant, and engaging is critical.
- ➤ The Idaho STEM Action Center's i-STEM Summer Institutes, the annual STEM conference, and the Division of Career Technical Education's (CTE) Summer Conferences are well-established vendors for professional development that have regional branding.

Recommendations – Career Technical Education and STEM Integration

Policy Recommendations – State Board of Education

Short-term Actions

- Work with CTE to ensure that guidance and templates provided to LEAs for students' career pathway plans (in alignment with I.C. 33-1614) include a section regarding the math students will need to achieve their future plans.
- 2. Work with the STEM Action Center to ensure that the STEM Strategic Plan and Comprehensive Math Plan are appropriately aligned.
- 3. Review Next Steps Idaho to identify places where future math coursework should be more detailed.

Long-term Actions

- Work with CTE to develop budgets and engage with the legislature to request full funding for middle school CTE programs.
- Based on the review of Next Steps Idaho, implement changes to address any identified gaps by making future math coursework information more detailed.

<u>Implementation Recommendations – State Department of Education</u>

Short-term Actions

- In coordination with CTE, develop a plan to integrate math instruction with the development of 7th - 8th Grade CTE programs (see Appendix B).
- Collaborate with CTE to ensure that math instruction provided through CTE is ongrade level and appropriately aligned to the state's math content standards.
 - a. Work with CTE to facilitate crosstraining between traditional and CTE educators to improve understanding of connections between the standards.
- Capitalize on existing, successful professional development structures within the STEM Action Center and CTE to provide expanded, integrated math training content.

Long-term Actions

- Work with the Board to support the development of budgets that sustain funding for CTE and STEM integration efforts.
- Implement the initiative to integrate math instruction with middle school CTE programs.
- 3. In coordination with the Board, CTE, STEM Action Center, Workforce Development Council, and RMCs, create and implement a campaign to address math culture in the state.
 - a. The campaign should include: every person is a math person; why math is important; how people use math in a variety of contexts and careers.

2023 MATH WORK GROUP MEMBERS

Linda Clark, Ed.D., Chair

President

State Board of Education

Alison Henken, MPP, Staff Support

K-12 Accountability and Projects Program Manager

Office of the State Board of Education

Ryan Cantrell

Deputy Superintendent
Department of Education

Cathy Beals, Ed.D

Math Coordinator
Department of Education

Katie Bosch-Wilson

STEM Education Coordination Officer

STEM Action Center

Julie Amador, Ph.D.

Regional Math Center Director

University of Idaho

Michele Carney, Ph.D.

Regional Math Center Director

Boise State University

JoDee Cook

Director of Curriculum and Instruction

Westside School District

Ryan Erickson

Vice Principal, Rigby Middle School Jefferson County School District

Joanne Huber

Math Teacher, Alameda Middle School Pocatello Chubbuck School District

Adam Johnson

Assistant Superintendent Blaine County School District

Jodie Mills

Chief Academic Officer

Boise Independent School District

Cindy Siddoway

Member

State Board of Education

Meghan Wonderlich

Director of Academics
Department of Education

Chet Andes, M.Ed.

Assistant Director of Program Quality
Division of Career Technical Education

Mike Nelson, Ph.D.

Deputy Superintendent Coeur d'Alene School District

Justin Pickens

Math and Science Teacher, Maple Grove Elementary

Boise Independent School District

Philip Stevens

Director of American Indian Studies

University of Idaho

Christi Thompson

Director

Syringa Mountain Charter School

Jessica Vanderwall

5th Grade Teacher, Grangeville Middle School

Mountain View School District

Leigh Wilson, M.Ed.

Math and Science Teacher, Potlatch Elementary

Potlatch School District

Our thanks to the following individuals who contributed to our subgroup discussions:

Rhonda Birnie, Regional Math Specialist

Veronica Blackham, Regional Math Specialist Christa Carver, Regional Math Specialist

Ramey Uriarte, Regional Math Specialist

REFERENCES

Carver-Thomas, D. & Darling-Hammond, L. (2017). *Teacher turnover: Why it matters and what we can do about it*. Palo Alto, CA: Learning Policy Institute. Web at https://learningpolicyinstitute.org/product/teacher-turnover.

Chan, T.C. & Jarman, D. (2004). Departmentalize Elementary Schools. Principal, 84(1), 70-72

Gerretson, H., Bosnick, J. & Schofield, K. (2008). *A case for content specialists as the elementary classroom teacher*. The Teacher Educator 43(4) 302-314.

Hill, H.C. & Ball, D.L. (2009). The Curious – and Crucial – Case of Mathematical Knowledge for Teaching. Phi Delta Kappan, 91(2).

Hill, H.C., Blunk, M.L., Blunk, Charalambous, C.Y., Lewis, J.M., Phelps, G.C., Sleep, L. & Loewenberg Ball, D. (2008). *Mathematical Knowledge for Teaching and the Mathematical Quality of Instruction: An Exploratory Study*. Cognition and Instruction, 26(4), 430-511. Web at https://doi.org/10.1080/07370000802177235.

Hill, H.C., Rowan, B. & Loewenberg Ball, D. (2005). *Effects of Teachers' Mathematical Knowledge for Teaching on Student Achievement*. American Educational Research Journal, 42(2), 371-406. Web at https://www.jstor.org/stable/3699380.

Hood, L. (2010). "Platooning" Instruction. The Education Digest, 75(7), 13.

Idaho State Board of Education (2022). Governing Policies and Procedures: Section III. Postsecondary Affairs. Web at https://boardofed.idaho.gov/board-policies-rules/board-policies/higher-education-affairs-section-iii.

Idaho State Board of Education. (2023). Educator Pipeline Report. Web at https://boardofed.idaho.gov/k-12-education/educator-effectiveness/idaho-educator-pipeline/.

National Center for Education Statistics (n.d.). *Teacher qualifications*. Fast Facts. Web at https://nces.ed.gov/fastfacts/display.asp?id=58.

National Council of Teachers of Mathematics. (2014). *Principles to Actions: Ensuring Mathematical Success for All.* Web at https://www.nctm.org/PtA/.

Rimm-Kaufman, S. E., Baroody, A. E., Larsen, R. A. A., Curby, T. W., & Abry, T. (2014). *To What Extent Do Teacher–Student Interaction Quality and Student Gender Contribute to Fifth Graders' Engagement in Mathematics Learning?*. Journal of Educational Psychology.

Sutcher, L., Darling-Hammond, L., & Carver-Thomas, D. (2016). *A coming crisis in teaching? Teacher supply, demand, and shortages in the U.S.* Palo Alto, CA: Learning Policy Institute. Web at https://learningpolicyinstitute.org/product/coming-crisis-teaching.

Xiao, F. & Sun, L. (2021). *Students' Motivation and Affection Profiles and Their Relation to Mathematics Achievement, Persistence, and Behaviors*. Frontiers in Psychology. doi: 10.3389/fpsyg.2020.533593.

Zhang, J., Bohrnstedt, G., Park, B. J., Ikoma, S., Ogut, B., and Broer, M. (2021). *Mathematics Motivation and the Relationship with Student Performance: Evidence from the HSLS Overlap Sample*. [AIR-NAEP Working Paper #2021-03]. Washington, DC: American Institutes for Research.

APPENDIX A

Summary of LEA Survey Results

Methodology

The What's Working Subgroup issued a survey to approximately 30 public school districts and public charter schools (or local education agencies – LEAs) who had outperformed the State of Idaho averages on the middle school math ISAT exam two out of the past three years, or who had shown above average growth during that time. Issues with the state's free and reduced lunch data (used to identify low socioeconomic students) during the pandemic years prevented the subgroup from controlling for this demographic factor.

Demographics of Surveyed LEAs:

- 18 LEAs responded to the survey
- LEA size varied between 1A and 5A
- All LEAs had below 50% low socioeconomic students

The purpose of this survey was to identify commonalities that could be characterized as indicators of success. Most districts reported that the composition of their teacher populations were experienced to veteran and that their math departments have experienced average to above average stability in personnel over the past five years. Most districts reported offering professional development opportunities specifically to math instruction or math curriculum over the past five years, and many districts identified a collaborative professional environment as part of the professional development focus. Many districts responded that their above average performance in mathematics could in part be attributed to alignment of standards and curriculum horizontally and vertically, and an MTSS type structure to monitor individual student achievement and needs. Most districts acknowledged that while they were encouraged by performing above state averages, they felt they had room for improvement and continued growth regarding student achievement in mathematics. The survey results are summarized in Figure 1.

After reviewing the survey results, LEAs were invited to participate in a virtual "round-table" to further discuss and explain factors that have been contributing to their district's success. Nine districts participated in this discussion. Feedback gathered during this session is demonstrated in Figure 2.

APPENDIX A

Highlighted Results

The following are all of the factors from the survey that had an average score of 3.5 or higher.

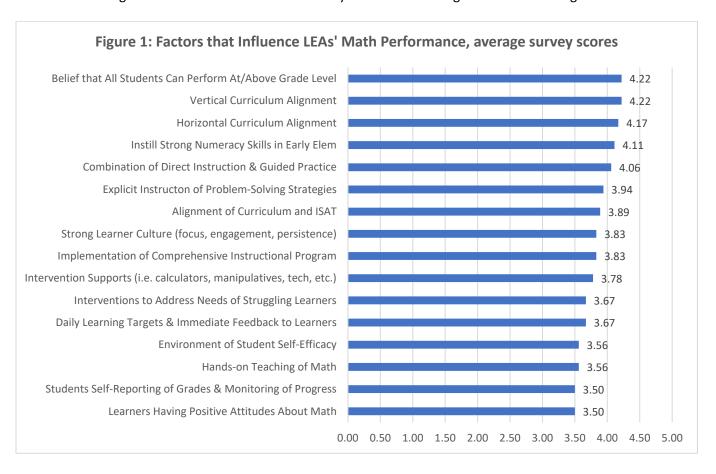


Figure 2: Common LEA Practices Impacting Success, based on round-table discussion



APPENDIX B

Proposed Middle School Math & CTE 7th – 8th Grade Programs Integration Project

Project Goal: Foster middle school career exploration through engaging middle school mathematics instruction.

| Inputs | Activities | Outputs | Outcomes | Impacts |
|---|--|---|---|---|
| Political support: Legislative OSBE CTE SDE Funding: \$2 million / yr for 3 years = \$6 million Project Manager and Administrative Assistant Support. Development of Middle School CTE programs that will integrate mathematics instruction. Professional Development costs, teacher time, credits and travel costs. Math content specialists who create resources and provide professional development for MS Math and CTE teachers. | Create a vision graphic to articulate a statewide vision for cross-disciplinary middle school mathematics instruction. Create standards crosswalks that show how middle school math standards and CTE standards align. Provide focused professional development for MS CTE and Mathematics teachers that engages them in cross-disciplinary planning, delivery of instruction and supporting students who struggle. Create a collection of resources to support MS Math and CTE teachers. Enhance Next Steps platform to create middle school resources and more specific guidance on math courses needed for careers. | Improved teacher confidence in teaching mathematics. Increased understanding of middle school math standards and alignment. Engaging, cross-disciplinary, math lessons. Student math portfolios. Student Career plans that include their "math path" for high school and awareness of how math will be a part of their chosen career. | Short-term Outcomes Increased student interest in mathematics Career Exploration Improved mathematics instruction Long-term Outcomes Improving math instruction Supporting teachers in rural high schools Improved student learning opportunities in mathematics. Improved student engagement in mathematics Improved student math identity Increase in CTE enrollment at the middle school level | Gains in student achievement Improvement in student math identity Enhanced CTE courses at the middle school level |



FY2025-FY2029 Idaho K-20 Public Education – Strategic Plan

MISSION STATEMENT

To drive improvement of the K-20 education system for the citizens of Idaho, focusing on quality, results, and accountability.

VISION STATEMENT

A student-centered education system that creates opportunities for all Idahoans to improve their quality of life.

GOAL 1: EDUCATIONAL READINESS

Provide a rigorous, uniform, and thorough education that empowers students to be lifelong learners and prepares all students to fully participate in their community and postsecondary and workforce opportunities by assuring they are ready to learn at the next educational level.

| Objective A – Literacy | Objective B – Mathematics | Objective C – Graduation |
|--|--|---|
| Provide effective literacy instruction across grades K-3 | Provide effective mathematics instruction across grades 6-8. | Increase Idaho's high school graduation rate. |

GOAL 2: EDUCATIONAL ACCESS

Increase access to Idaho's robust educational system for all Idahoans, regardless of socioeconomic status, age, or geographic location.

| Objective A – Advanced Opps | Objective B – Engagement | Objective C - College Going |
|---|---|--|
| Increase high-school student participation in advanced opportunities. | Increase high-school student engagement in exploring postsecondary opportunities. | Increase the rate at which high school graduates pursue postsecondary opportunities. |

GOAL 3: EDUCATIONAL ATTAINMENT

Idaho's public colleges and universities and career technical education programs fuel a strong workforce pipeline evidenced through a greater number of students completing certificates and/or degrees, including workforce credentials.

| Objective A – Retention | Objective B-Timely Completion | Objective C – Attainment |
|--|-------------------------------------|---|
| Increase the retention rate of first-year students into the second year. | Increase on-time degree completion. | Increase completion of certificates and degrees through Idaho's educational system. |

FY2025-FY2029

Idaho K-20 Public Education - Strategic Plan

An Idaho Education: High Potential – High Achievement

MISSION STATEMENT

To drive improvement of the K-20 education system for the citizens of Idaho, focusing on quality, results, and accountability.

VISION STATEMENT

A student-centered education system that creates opportunities for all Idahoans to improve their quality of life.

GUIDING VALUES

- Access
- Innovation
- Preparedness
- Resilience

MID-TERM PRIORITY FOCUS AREAS

Elementary and Secondary Education

- Literacy Proficiency and Growth Kindergarten through grade 3
- Mathematics Proficiency and Growth Grades 6 through 9
- High School Credit Recovery, Completion, and Transition (Workforce or Postsecondary)

Postsecondary Education

- Recruitment and Access
- Retention
- Transfer and Completion

GOAL 1: EDUCATIONAL READINESS (student-centered) – Provide a rigorous, uniform, and thorough education that empowers students to be lifelong learners and prepares all students to fully participate in their community and postsecondary and workforce opportunities by assuring they are ready to learn at the next educational level.

Objective A: Literacy - Provide effective literacy instruction across grades K-3.



Performance Measures:

I. Proficiency: Statewide aggregated % of K-3 students achieving proficiency on the spring administration of the statewide literacy assessment (currently the Idaho Reading Indicator, IRI).

Benchmark: 75%¹

II. Growth: Statewide aggregated percentage of K-3 students whose performance on the statewide literacy assessment increased by at least one sub-category between the fall and spring administrations of the assessment.

Benchmark: New Measure²

Objective B: Mathematics - Provide effective mathematics instruction across grades 6-8.



Performance Measures:

I. Proficiency: Statewide aggregated percentage of 6-8 students who achieved proficiency on the spring administration of the statewide mathematics assessment (currently the Idaho Standards Achievement Test, ISAT).

Benchmark: 43%³

II. Growth: Statewide aggregated percentage of students in grades 6-8 whose performance on the statewide mathematics assessment increased by at least one sub-category between spring-to-spring administrations of the assessment.

Benchmark: New Measure

Objective C: Graduation: Increase Idaho's high school graduation rate.

HS

Performance Measures:

I. 5-Year Adjusted Cohort Graduation Rate (ACGR)⁴

Benchmark: 87% or more

GOAL 2: EDUCATIONAL ACCESS - Increase access to Idaho's robust educational system for all Idahoans, regardless of socioeconomic status, age, or geographic location.

<u>Objective A: Advanced Opportunities</u> – Increase high-school student participation in advanced opportunities.

HS R/A

Performance Measures:

1. Percent of high school graduates who were funded for or more advanced opportunities.

Benchmark: 90% or more

<u>Objective B: Student Engagement</u> - Increase high-school student engagement in exploring postsecondary opportunities.

HS R/A

Performance Measures:

I. Percent of Idaho public high school seniors who complete the Free Application for Federal Student Aid (FAFSA).

Benchmark: 60% or more

II. Percent of Idaho public high school seniors who submit at least one application through Apply Idaho.

Benchmark: New Measure

<u>Objective C: College-Going</u> - Increase the rate at which high school graduates pursue postsecondary opportunities.

HS R/A

Performance Measures:

I. Percent of high school graduates who enroll in an Idaho public postsecondary institution in the fall immediately following graduation.

Benchmark: 60%⁵ or more

II. Percent of high school graduates who enroll in an Idaho public postsecondary institution Within 36 months of high school graduation.

Benchmark: 80% or more

GOAL 3: EDUCATIONAL ATTAINMENT (opportunity) – Idaho's public colleges and universities and career technical education programs fuel a strong workforce pipeline evidenced through a greater numbers of student completing certificates and/or degrees, including workforce credentials.

<u>Objective A: First-Year Student Retention:</u> Increase the retention rate of first-year students into the second year.



Performance Measures:

I. Percentage of new full-time degree-seeking students who return (or who graduate) for second year in an Idaho postsecondary public institution.

Benchmark: 75%⁷ or more

II.

Percent of undergraduate, degree-seeking students completing two full-time semesters⁸ per academic year at the institution reporting.

Benchmark: 55% or more

<u>Objective B: Timely Degree Completion</u> – Increase on-time degree completion.

T/C

Performance Measures:

I. Percent of full-time first-time freshman graduating within 100% of the allotted time (e.g. 4-year degree in 4 years; 2-year degree in 2 years).

Benchmark: 30%

II. Percent of full-time first-time freshman graduating within 150% of the allotted time (e.g. 4-year degree in 6 years; 2-year degree in 3 years).

Benchmark: 50%

<u>Objective C: Educational Attainment</u> – Increase completion of certificates and degrees through Idaho's educational system.



Performance Measures:

I. Percent of total credentials conferred in STEM fields¹⁰.

Benchmark: 25%

II. Unduplicated headcount of graduates, by highest level attained.

Benchmark: 18,000¹¹

KEY EXTERNAL FACTORS

The Board's responsibility of governance and oversight of public education in Idaho is focused on providing a high-quality educational system with opportunities and access for all Idaho residents regardless of where they intersect with the educational system. The structure of public education in Idaho provides an opportunity of focusing work towards common goals, however, the work of communicating out these common focus areas and helping each segment of the public education system to understand and make progress in those areas can be difficult when the system or parts of the system are not adequately resourced or there is not a common vision of success or accountability.

EVALUATION PROCESS

The Board convenes representatives from the institutions, agencies, and other interested education stakeholders to review and recommend amendments to the Board's Planning, Policy and Governmental Affairs Committee regarding the development of the K-20 Education Strategic Plan. Recommendations are then presented to the Board for consideration in December. Additionally, the Board reviews and considers amendments to the strategic plan annually, changes may be brought forward from the Planning, Policy, and Governmental Affairs Committee, Board staff, or other ad hoc input received during the year. This review and re-approval takes into consideration performance measure progress reported to the Board in October.

Performance towards meeting the set benchmarks is reviewed and discussed annually with the State Board of Education in October. The Board may choose at that time to direct staff to change or adjust performance measures or benchmarks contained in the K-20 Education Strategic Plan. Feedback received from the institutions and agencies as well as other education stakeholders is considered at this time.

¹ Benchmark is based on the FY2023 statewide, spring administration, all students, composite outcome of 66%.

² New measures are expected to collect baseline data in the first year, and to establish a target and report outcomes in the second year.

³ Benchmark is based on Accountability Oversight Committee recommendations and reflects the FY23 6-8 aggregated baseline proficiency ate of 38.8%.

⁴ 5-Year ACGR considers students who graduate within 4 years of entering 9th grade, plus the summer after 12th grade. Benchmark is based on Accountability Oversight Committee recommendations.

⁵ Outcomes over the past five years have fallen by approximately 10% and are most recently reported at 42%. The benchmark remains at 60%.

⁶ Outcomes over the past five years have fallen by approximately 10% and are most recently reported at 52%. The benchmark remains at 80%.

⁷ The 2021-2022 systemwide outcome was 70%.

⁸ A full-time semester at a four-year institution is 30 credit hours. A full-time semester at a two-year institution is 24 credit hours.

⁹ The 2021-2022 systemwide outcome was 50%.

¹⁰ For the purpose of this measure, STEM fields will use the CCA/IPEDS Definition.

¹¹ A supplemental report will separate graduates by credential issued for further analysis. The benchmark for the aggregated total is based on a fiscal year 2023 aggregated total of 17,483 graduates.