



Information and Communication Technology

Approved by the Idaho State Board of Education, April 22, 2010

IDAHO CONTENT STANDARDS
Grades K – 2
INFORMATION AND COMMUNICATION TECHNOLOGY

Standard 1: Creativity and Innovation

Goal 1.1: Demonstrate creative thinking, construct knowledge, and use information and communication technologies to develop innovative products and processes.

Objective(s): By the end of Grade 2, the student will be able to:

- K-2.ICT.1.1.1 Use multiple forms of knowledge to create products.
- K-2.ICT.1.1.2 Create original works as a means of personal or group expression.
- K-2.ICT.1.1.3 Use models and games to introduce systems.

Standard 2: Communication and Collaboration

Goal 2.1: Use digital media and environments to communicate and work collaboratively to support individual learning and to contribute to the learning of others.

Objective(s): By the end of Grade 2, the student will be able to:

- K-2.ICT.2.1.1 Identify and use digital media and environments to share ideas.
- K-2.ICT.2.1.2 Identify issues in a group setting using digital tools.

Standard 3: Research Skills and Critical Thinking

Goal 3.1: Exercise critical thinking to plan and conduct research using a variety of information resources including print, digital, and other sources

Objective(s): By the end of Grade 2, the student will be able to:

- K-2.ICT.3.1.1 Identify information needs and questions to solve an information problem or make an informed decision.
- K-2.ICT.3.1.2 Identify information resources for specific tasks.
- K-2.ICT.3.1.3 Identify navigation skills in accessing resources such as table of contents, index, menu, and search fields.
- K-2.ICT.3.1.4 Collect and analyze data and information to make decisions and draw conclusions.

Standard 4: Digital Citizenship

Goal 4.1: Understand human, cultural, and societal issues related to information and communication technologies and practice legal and ethical behavior.

Objective(s): By the end of Grade 2, the student will be able to:

- K-2.ICT.4.1.1 Identify safe and responsible use of information and technology such as careful disclosure of personal information.
- K-2.ICT.4.1.2 Identify the source of information

Standard 5: Technology Operations & Concepts

Goal 5.1: Demonstrate a sound understanding of technology concepts, systems, and operations.

Objective(s): By the end of Grade 2, the student will be able to:

- K-2.ICT.5.1.1 Identify and use technology tools including hardware and electronic devices.
- K-2.ICT.5.1.2 Identify and use software applications with assistance.

IDAHO CONTENT STANDARDS Grades 3 – 5 INFORMATION AND COMMUNICATION TECHNOLOGY

Standard 1: Creativity and Innovation

Goal 1.1: Demonstrate creative thinking, construct knowledge, and use information and communication technologies to develop innovative products and processes.

Objective(s): By the end of Grade 5, the student will be able to:

- 3-5.ICT.1.1.1 Demonstrate different ways to gain knowledge to create products.
- 3-5.ICT.1.1.2 Create original works as a means of personal or group expression incorporating teacher selected resources
- 3-5 ICT.1.1.3 Interpret models and simulations to explore systems and issues.

Standard 2: Communication and Collaboration

Goal 2.1: Use digital media and environments to communicate and work collaboratively to support individual learning and to contribute to the learning of others.

Objective(s): By the end of Grade 5, the student will be able to:

- 3-5.ICT.2.1.1 Illustrate and present ideas using digital media and environments.
- 3-5.ICT.2.1.2 Select an issue and use digital tools and media to present solutions collaboratively.

Standard 3: Research Skills and Critical Thinking

Goal 3.1: Exercise critical thinking to plan and conduct research using a variety of information resources including print, digital and other sources

Objective(s): By the end of Grade 5, the student will be able to:

- 3-5.ICT.3.1.1 Categorize and understand information needs and create research questions to solve an information problem or make an informed decision.
- 3-5.ICT.3.1.2 Select information resources to solve an information problem or make an informed decision.
- 3-5.ICT.3.1.3 Demonstrate navigation skills in accessing information resources.
- 3-5 ICT.3.1.4 Collect and analyze data and information to make decisions, draw conclusions, and create new understanding.

Standard 4: Digital Citizenship

Goal 4.1: Understand human, cultural, and societal issues related to information and communication technologies and practice legal and ethical behavior.

Objective(s): By the end of Grade 5, the student will be able to:

- 3-5 ICT.4.1.1 Describe safe, ethical, and responsible practices in the use of information and technology.
- 3-5.ICT.4.1.2 Identify and cite information and sources in an ethical and responsible manner.

Standard 5: Technology Operations & Concepts

Goal 5.1: Demonstrate a sound understanding of technology concepts, systems, and operations.

Objective(s): By the end of Grade 5, the student will be able to:

- 3-5. ICT. .5.1.1 Identify and use technology tools independently such as electronic devices and keyboards.
- 3-5. ICT.5.1.2 Identify and use software applications independently.
- 3-5. ICT.5.1.3 Identify technology tools and software application problems.
- 3-5. ICT.5.1.4 Identify and experiment with new technologies such as hardware, software applications and web-based applications.

IDAHO CONTENT STANDARDS
6 – 8
INFORMATION AND COMMUNICATION TECHNOLOGY

Standard 1: Creativity and Innovation

Goal 1.1: Demonstrate creative thinking, construct knowledge, and use information and communication technologies to develop innovative products and processes.

Objective(s): By the end of Grade 8, the student will be able to:

- 6-8. ICT.1.1.1 Apply existing knowledge to generate new ideas, products, or processes.
- 6-8. ICT.1.1.2 Create original works as a means of personal or group expression using student selected resources.
- 6-8. ICT.1.1.3 Build models and simulations to explore systems, issues and trends.

Standard 2: Communication and Collaboration

Goal 2.1: Use digital media and environments to communicate and work collaboratively to support individual learning and to contribute to the learning of others.

Objective(s): By the end of Grade 8, the student will be able to:

- 6-8. ICT.2.1.1 Inquire, interact, and communicate ideas, employing a variety of digital media and environments.
- 6-8. ICT.2.1.2 Collaborate with others, using digital tools and media to identify and research an issue, compare solutions and make a decision.

Standard 3: Research Skills and Critical Thinking

Goal 3.1: Exercise critical thinking to plan and conduct research using a variety of information resources including print, digital and other sources

Objective(s): By the end of Grade 8, the student will be able to:

- 6-8. ICT.3.1.1 Organize and analyze information needs to formulate research questions to solve an information problem or make an informed decision.
- 6-8. ICT.3.1.2 Compare and select information resources to solve an information problem or make an informed decision.
- 6-8. ICT.3.1.3 Demonstrate navigation skills in accessing a variety of information resources and begin using advanced search skills.
- 6-8. ICT.3.1.4 Collect, analyze and organize data and information to make decisions, draw conclusions, and create new understanding.

Standard 4: Digital Citizenship

Goal 4.1: Understand human, cultural, and societal issues related to information and communication technologies and practice legal and ethical behavior.

Objective(s): By the end of Grade 8, the student will be able to:

- 6-8.ICT.4.1.1 Practice safe, ethical, legal, and responsible use of information and technology.
- 6-8.ICT.4.1.2 Use and cite all information and sources in an ethical and responsible manner.

Standard 5: Technology Operations & Concepts

Goal 5.1: Demonstrate a sound understanding of technology concepts, systems, and operations.

Objective(s): By the end of Grade 8, the student will be able to:

- 6-8.ICT.5.1.1 Differentiate, use and integrate technology tools.
- 6-8.ICT.5.1.2 Select and use software applications.
- 6-8.ICT.5.1.3 Troubleshoot technology tools and software applications.
- 6-8.ICT.5.1.4 Apply previous knowledge to new technologies.

IDAHO CONTENT STANDARDS

9 – 12

INFORMATION AND COMMUNICATION TECHNOLOGY

Standard 1: Creativity and Innovation

Goal 1.1: Demonstrate creative thinking, construct knowledge, and use information and communication technologies to develop innovative products and processes.

Objective(s): By the end of Grade 12, the student will be able to:

- 9-12.ICT.1.1.1 Evaluate and interpret existing knowledge to generate new ideas, products, or processes.
- 9-12.ICT.1.1.2 Create original works as a means of personal or group expression using multiple resources and formats.
- 9-12.ICT.1.1.3 Create models and simulations to explore complex systems and issues to identify trends and forecast possibilities.

Standard 2: Communication and Collaboration

Goal 2.1: Use digital media and environments to communicate and work collaboratively to support individual learning and to contribute to the learning of others.

Objective(s): By the end of Grade 12, the student will be able to:

- 9-12.ICT.2.1.1 Inquire, interact, and publish with peers, experts, or others employing a variety of digital media and environments.
- 9-12.ICT.2.1.2 Collaborate with others using digital tools and media to identify issues and exchange ideas, develop new understandings, make decisions and/or solve problems

Standard 3: Research Skills and Critical Thinking

Goal 3.1: Exercise critical thinking to plan and conduct research using a variety of information resources including print, digital and other sources

Objective(s): By the end of Grade 12, the student will be able to:

- 9-12.ICT.3.1.1 Design research questions and strategies based on information needs to solve an information problem or make an informed decision.
- 9-12.ICT. 3.1.2 Evaluate and select a variety of resources to solve an information problem or make an informed decision.
- 9-12.ICT.3.1.3 Formulate specific searches using advanced navigation skills to access a variety of resources.
- 9-12.ICT.3.1.4 Collect, analyze, organize, and interpret data and information to make informed decisions, draw conclusions, and construct new understanding and knowledge.

Standard 4: Digital Citizenship

Goal 4.1: Understand human, cultural, and societal issues related to information and communication technologies and practice legal and ethical behavior.

Objective(s): By the end of Grade 12, the student will be able to:

- 9-12. ICT.4.1.1 Practice and explain importance of safe, ethical, legal, and responsible use of information and technology.
- 9-12. ICT.4.1.2 Practice and explain importance of citing information sources.

Standard 5: Technology Operations & Concepts

Goal 5.1: Demonstrate a sound understanding of technology concepts, systems, and operations.

Objective(s): By the end of Grade 12, the student will be able to:

- 9-12.ICT.5.1.1 Evaluate, configure, and implement various technologies.
- 9-12.ICT.5.1.2 Select, use and integrate various software applications.
- 9-12.ICT.5.1.3 Troubleshoot technology systems and software applications.
- 9-12.ICT.5.1.4 Integrate new technologies into current knowledge and practices.