

Grade 7 Science ISAT Proficiency Level Descriptors

Advanced

Seventh grade students typically performing at the Advanced level consistently demonstrate the ability to use their understanding of the world around them to solve real-world problems.

Students show a thorough understanding of complex system order and components, physical properties of matter, force and motion, natural selection, cycling of energy, cell structures and their functions, inherited traits, Earth processes, the water cycle and weather, the relationship between science and technology, and alternative energy sources. Students show the ability to understand how scientific inquiries are conducted using metric measurements, base scientific explanations on observable data, describe scientific models, read and evaluate technical instructions, and identify the appropriate tools of science. Understanding these scientific concepts allows the student to more fully understand the world around them.

Proficient

Seventh grade students typically performing at the Proficient level consistently demonstrate a clear understanding of how the world around them works. Students have an understanding of system order and components, physical properties of matter, force and motion, natural selection, cycling of energy, cell structures and their functions, inherited traits, Earth processes, the water cycle and weather, the relationship between science and technology, and alternative energy sources. Students show the ability to understand how scientific inquiries are conducted using metric measurements, base scientific explanations on observable data, describe scientific models, read technical instructions and identify the appropriate tools of science. Understanding these scientific concepts allows the student to more fully understand the world around them.

Basic

Seventh grade students typically performing at the Basic level demonstrate a limited understanding of how the world around them works. Students have a minimal understanding of system order and components, physical properties of matter, force and motion, natural selection, cycling of energy, cell structures and their functions, inherited traits, Earth processes, the water cycle and weather, the relationship between science and technology, and alternative energy sources. Students show limited ability to understand how scientific inquiries are conducted using metric measurements, base scientific explanations on observable data, describe scientific models, read technical instructions and identify the appropriate tools of science. Understanding these scientific concepts allows the student to more fully understand the world around them.