

A Correlation of
Elevate Science
Course 1, ©2019



To the
Arizona Science Standards (2018)
Grade 6

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Introduction

This document demonstrates how ***Elevate Science* ©2019** meets the Arizona Science Standards for 2018, Grade 6. Correlation page references are to the Student and Teacher’s Editions and cited at the page level.

Pearson is proud to introduce ***Elevate Science*** Middle Grades – where exploration is the heart of science! Designed to address the rigors of new science standards, students will experience science up close and personal, using real-world, relevant phenomena to solve project-based problems. Our newest program prepares students for the challenges of tomorrow, building strong reasoning skills and critical thinking strategies as they engage in explorations, formulate claims, and gather and analyze data that promote evidence-based arguments. The blended print and digital curriculum covers all Next Generation Science Standards at every grade level.

Elevate Science helps teachers transform learning, promote innovation, and manage their classroom.

Transform science classrooms by immersing students in active, three-dimensional learning.

Elevate Science engages students with real-world tasks, open-ended Quests, uDemonstrate performance-based labs, and in the engineering/design process with uEngineer It! investigations.

- A new 3-D learning model enhances best practices.
- Engineering-focused features infuse STEM learning.
- Phenomena-based activities put students at the heart of a Quest for knowledge.

Innovate learning by focusing on 21st century skills.

Students are encouraged to think, collaborate, and innovate! With ***Elevate Science***, students explore STEM careers, experience engineering activities, and discover our scientific and technological world. The content, strategies, and resources of *Elevate Science* equip the science classroom for scientific inquiry and science and engineering practices.

- Problem-based learning Quests put students on a journey of discovery.
- STEM connections help integrate curriculum.
- Coding and innovation engage students and build 21st century skills.

Manage the classroom with confidence.

Teachers will lead their class in asking questions and engaging in argumentation. Evidence-based assessments provide new options for monitoring student understanding.

- Professional development offers practical point-of-use support.
- Embedded standards in the program allow for easy integration.
- ELL and differentiated instruction strategies help instructors reach every learner.
- Interdisciplinary connections relate science to other subjects.

Designed for today's classroom, preparing students for tomorrow's world. ***Elevate Science*** promises to:

- Elevate thinking.
- Elevate learning.
- Elevate teaching.

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Arizona Science Standards (2018) Grade 6	Elevate Science, Course 1 2019
Grade 6	
Sixth Grade: Focus on Patterns; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter	
Physical Sciences: Students develop an understanding of forces and energy and how energy can transfer from one object to another or be converted from one form to another. They also develop an understanding of the nature of matter.	
Physical Science Standards	
6.P1U1.1 Analyze and interpret data to show that changes in states of matter are caused by different rates of movement of atoms in solids, liquids, and gases (Kinetic Theory).	SE/TE: Particles of a Solid, 48 Particles of a Liquid, 51 Particles of a Gas, 53 Temperature, 57 Thermal Energy and Temperature, 57 Changes of State Between Solid and Liquid, 58-59 Changes of State Between Liquid and Gas, 60-62 Figure 5: Pressure and Vaporization, 61 Changing State from Solid to Gas, 63 Interactivity: Thermal Energy and Changes of State, 63 Thermal Energy, 111
6.P1U1.2 Plan and carry out an investigation to demonstrate that variations in temperature and/or pressure affect changes in state of matter.	SE/TE: Thermal Energy and Temperature, 57 Changes of State Between Solid and Liquid, 58-59 Changes of State Between Liquid and Gas, 60-62 Interactivity: States of Matter, 60 Figure 5: Pressure and Vaporization, 61 Changing State from Solid to Gas, 63 Interactivity: Thermal Energy and Changes of State, 63 Topic 2, Lesson 3: Gas Behavior, 66-74 Hands-On Lab: Testing Charles' and Boyle's Law, 69 Interactivity: A Hot-Air Balloon Ride, 73 ulnvestigate Lab: Melting Ice, 82-85,

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6.P1U1.3 Develop and use models to represent that matter is made up of smaller particles called atoms.	SE/TE: Components of Matter, 8-9 Model It!: Molecules and Atoms, 9,
6.P2U1.4 Develop and use a model to predict how forces act on objects at a distance.	SE/TE: Hands-On Lab: Energy, Magnetism, and Electricity, 104 This standard is addressed in Elevate Science, Course 2, Topic 9, Lesson 1: Electric Force and Lesson 2, Magnetic Force This standard is also addressed in Elevate Science, Course 3, Topic 3, Lesson 4: Friction and Gravitational Interactions
6.P4U2.5 Analyze how humans use technology to store (potential) and/or use (kinetic) energy.	SE/TE: Kinetic Energy, 101-102 Potential Energy, 103-105 Interactivity: Roller Coasters and Potential Energy, 105 uEngineer It!: Prosthetics on the Move, 107 Figure 4: Energy at the Cookout, 114-115
Earth and Space Sciences: Students develop an understanding of the scale and properties of objects in the solar system and how forces (gravity) and energy cause observable patterns in the Sun-Earth-Moon system.	
Earth and Space Standards	
6.E1U1.6 Investigate and construct an explanation demonstrating that radiation from the Sun provides energy and is absorbed to warm the Earth's surface and atmosphere.	This standard is addressed in Elevate Science, Course 3, Topic 7, Lesson 1: Energy in Earth's Atmosphere.
6.E2U1.7 Use ratios and proportions to analyze and interpret data related to scale, properties, and relationships among objects in our solar system.	This standard is addressed in Elevate Science, Course 3, Topic 10, Lesson 1: Solar System Objects.
6.E2U1.8 Develop and use models to explain how constellations and other night sky patterns appear to move due to Earth's rotation and revolution.	This standard is addressed in Elevate Science, Course 3, Topic 9, Lesson 1: Movement in Space.

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6.E2U1.9 Develop and use models to construct an explanation of how eclipses, moon phases, and tides occur within the Sun-Earth-Moon system.	This standard is addressed in Elevate Science, Course 3, Topic 9, Lesson 3: Phases and Eclipses.
6.E2U1.10 Use a model to show how the tilt of Earth’s axis causes variations in the length of the day and gives rise to seasons.	This standard is addressed in Elevate Science, Course 3, Topic 9, Lesson 2: Earth’s Movement in Space.
Life Sciences: Students develop an understanding of how energy from the Sun is transferred through ecosystems.	
Life Science Standards	
6.L2U3.11 Use evidence to construct an argument regarding the impact of human activities on the environment and how they positively and negatively affect the competition for energy and resources in ecosystems.	<p>This standard is addressed in Elevate Science, Course 2, Topic 5, Lesson 3: Biodiversity and Lesson 4: Ecosystem Services.</p> <p>This standard is also addressed in Elevate Science, Course 2; Topic 6; Lesson 1: Nonrenewable Energy Resources and Lesson 4: Water Resources.</p> <p>See also Elevate Science, Course 2; Topic 7; Lesson 1: Population Growth and Resource Consumption; Lesson 2: Air Pollution; Lesson 3: Impacts on Land; Lesson 4: Water Pollution; and uDemonstrate Lab: Washing Away.</p>
6.L2U3.12 Engage in argument from evidence to support a claim about the factors that cause species to change and how humans can impact those factors.	This standard is addressed in Elevate Science, Course 3, Topic 5, Lesson 2: Natural Selection; Lesson 3: The Process of Evolution; Lesson 4: Evidence in the Fossil Record; and Lesson 5: Other Evidence of Evolution.
6.L2U1.13 Develop and use models to demonstrate the interdependence of organisms and their environment including biotic and abiotic factors.	This standard is addressed in Elevate Science, Course 2, Topic 4, Lesson 1: Living Things and the Environment.
6.L2U1.14 Construct a model that shows the cycling of matter and flow of energy in ecosystems.	SE/TE: This standard is addressed in Elevate Science, Course 2, Topic 4, Lesson 2: Energy Flow in Ecosystems and Lesson 3: Cycles of Matter.