

A Correlation of

**Elevate Science Modules
Grades 6-8, ©2019**



**To the
Arizona
2018 Science Standards
Grade 6**

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Introduction

This document demonstrates how **Elevate Science ©2019** meets the Arizona Science Standards, Grades 6-8. Correlation page references are to the Student and Teacher’s Editions and cited at the page level.

Savas Learning Company 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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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).	Structure and Properties 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 Changing State from Solid to Gas, 63
6.P1U1.2 Plan and carry out an investigation to demonstrate that variations in temperature and/or pressure affect changes in state of matter.	Structure and Properties 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 Changing State from Solid to Gas, 63 Pressure and Temperature of a Gas, 67–68 Temperature and Volume, 69–70 Pressure and Volume, 71–73
6.P1U1.3 Develop and use models to represent that matter is made up of smaller particles called atoms.	Atoms and Chemical Reactions SE/TE: Development of Atomic Theory, 6 Model It!, Models of an Atom, 9 TE Only: Focus on Mastery!, 9 Hands-On Lab, 10 Topic 1, Develop Models, 56 Structure and Properties of Matter SE/TE: Components of Matter, 8–9 Model It!, 9 Interactivity, 10 Evidence-Based Assessment, 36-37

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6.P2U1.4 Develop and use a model to predict how forces act on objects at a distance.	Forces SE/TE: How Forces Affect Motion, 7–8 Electric Force, Fields, and Energy, 57–58 Magnetic Force and Energy, 67–68
6.P4U2.5 Analyze how humans use technology to store (potential) and/or use (kinetic) energy.	Forces SE/TE: uEngineer It! Generating Energy from Potholes, 33 Electric Currents and Circuits, 61
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.	Cycles Influencing Weather and Climate SE/TE: Energy from the Sun, 63–66 Lesson 1 Check, Hands-On Lab, 70
6.E2U1.7 Use ratios and proportions to analyze and interpret data related to scale, properties, and relationships among objects in our solar system.	Earth’s Place in the Universe SE/TE: Math Toolbox, 6 Understanding the Solar System, 49–52 Investigate, 56–57 Case Study: Comparing Solar System Objects, 60–61
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.	Earth’s Place in the Universe SE/TE: The Night Sky, 5–7 Movement in the Sky, 8–9 How Earth Moves, 17–18 The Appearance of the Moon, 27–30
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.	Earth’s Place in the Universe SE/TE: The Appearance of the Moon, 27–30 Eclipses, 31 Tides, 32–33

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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.	<p>Earth’s Place in the Universe SE/TE: How Earth Moves, 17–18 The Seasons, 19–20</p>
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>Changing Earth and Human Activity SE/TE: Natural Resources, 57 Fossil Fuels, 58–62 Using Energy Resources, 64 Reducing Fossil Fuel Usage, 67 Humans and Minerals, 80 Case Study: Phosphorus Fiasco, 82–83 Human Impacts, 88–89 Using Natural Resources, 108–109 Balancing Needs, 110 Causes of Pollution, 113 Outdoor Air Pollution, 114–116 Sources of Freshwater Pollution, 138–139 Sources of Ocean Pollution, 140–141 Nuclear Energy, 63 Controlling Air Pollution, 118–119 Global to Local: Working Together to Reduce Air Pollution, 121 Land as a Resource, 123–124 Importance of Soil Management, 125–128 Sustainable Forest Management, 130–132 Water as a Resource, 137 Reducing Water Pollution, 142–143</p> <p>Cycles Influencing Weather and Climate SE/TE: Recent Climate Change, 119–122</p> <p>Relationships Within Ecosystems SE/TE: Human Impact, 103–104</p>

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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.	<p>Changing Earth and Human Activity SE/TE: Human Impacts, 88–89 TE Only: Focus on Mastery!, 89</p> <p>Relationships Within Ecosystem SE/TE: Human Impact, 103–104</p> <p>Diversity of Life SE/TE: Environmental Factors, 42</p>
6.L2U1.13 Develop and use models to demonstrate the interdependence of organisms and their environment including biotic and abiotic factors.	<p>Relationships Within Ecosystems SE/TE: Living Things and Energy, 5–7 Organisms and Habitats, 37–38 Ecosystems Organization, 39 Energy Roles in an Ecosystem, 47–50 Energy and Matter Transfer, 50–53 Competition and Predation, 81–83 Symbiotic Relationships, 84–86</p>
6.L2U1.14 Construct a model that shows the cycling of matter and flow of energy in ecosystems.	<p>Relationships Within Ecosystems SE/TE: Living Things and Energy, 5–7 uDemonstrate Lab: Cycling Energy and Matter, 28–31 Energy Roles in an Ecosystem, 47–50 Energy and Matter Transfer, 50–53 Conservation of Matter and Energy, 57 Water Cycle, 58–59 Carbon and Oxygen Cycles, 60–61 Nitrogen Cycle in Ecosystems, 62–63 Competition and Predation, 81–83 Symbiotic Relationships, 84–86</p>