

**FOSS® Next Generation, FOSS Pathways™, Delta Explore Primary Readers,
Delta Science Content Readers and Delta ScienceFLEX® Readers
Alignment to Arizona 2018 Science Standards**

Grade Kindergarten	
Arizona 2018 Science Standard	Program Aligned
K.P2U1.1 Investigate how senses can detect light, sound, and vibrations even when they come from far away; use the collected evidence to develop and support an explanation.	Delta Explore Primary Readers My Five Senses
K.P2U2.2 Design and evaluate a tool that helps people extend their senses.	FOSS Pathways Trees and Weather Investigation 3; Part 3 FOSS Pathways Animals Two by Two Investigation 2; Parts 1-3
K.E1U1.3 Observe, record, and ask questions about temperature, precipitation, and other weather data to identify patterns or changes in local weather.	FOSS Pathways Trees and Weather Investigation 3; Parts 1-3
K.E1U1.4 Observe, describe, ask questions, and predict seasonal weather patterns; and how those patterns impact plants and animals (including humans).	FOSS Pathways Trees and Weather Investigation 1; Part 1 Investigation 4; Parts 1-3
K.E2U1.5 Observe and ask questions about patterns of the motion of the sun, moon, and stars in the sky.	FOSS Pathways Trees and Weather Investigation 2; Part 2
K.L1U1.6 Obtain, evaluate, and communicate information about how organisms use different body parts for survival.	FOSS Pathways Animals Two by Two Investigations 1-4; All Parts
K.L1U1.7 Observe, ask questions, and explain how specialized structures found on a variety of plants and animals (including humans) help them sense and respond to their environment.	FOSS Pathways Animals Two by Two Investigations 1-4; All Parts
K.L2U1.8 Observe, ask questions, and explain the differences between the characteristics of living and non-living things.	FOSS Pathways Animals Two by Two Investigation 3; Part 1
Core Idea U2 The knowledge produced by science is used in engineering and technologies to solve problems and/or create products.	FOSS Pathways Materials and Forces Investigation 2; Side Trip 1 Investigation 2; Part 1 FOSS Pathways Trees and Weather Investigation 2; Part 3

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Grade 1	
Arizona Science Standard	Program Aligned to AZ Amphitheater Matrix
<p>1.P2U1.1 Plan and carry out investigations demonstrating the effect of placing objects made with different materials in the path of a beam of light and predict how objects with similar properties will affect the beam of light.</p>	<p>FOSS Pathways Sound and Light Investigation 3; Part 1 Investigation 1; Side Trip 2 Investigation 4; Parts 1-3</p>
<p>1.P2U1.2 Use models to provide evidence that vibrating matter creates sound and sound can make matter vibrate.</p>	<p>FOSS Pathways Sound and Light Investigation 1; Parts 1-2, Side Trip 1 Investigation 2; Parts 1-2</p>
<p>1.P3U1.3 Plan and carry out investigations which demonstrate how equal forces can balance objects and how unequal forces can push, pull, twist objects, making them change their speed, direction, or shape.</p>	<p>FOSS Next Generation STEM Forces in Action Investigation 1; All Parts Investigation 2; All Parts Investigation 4: All Parts</p>
<p>1.P4U2.4 Design and evaluate ways to increase or reduce heat from friction between two objects.</p>	<p>FOSS Next Generation STEM Forces in Action Investigation 1; Part 1</p>
<p>1.E1U1.5 Obtain, evaluate, and communicate information about the properties of Earth materials and investigate the properties of earth materials and how humans use resources in everyday life.</p>	<p>FOSS Science Resource Book: <i>Pebbles, Sand and Silt</i> <i>*This standard is also addressed in Water and Landforms.</i></p>
<p>1.L1U1.6 Observe, describe, and predict life cycles of animals and plants.</p>	<p>FOSS Pathways Insects and Plants Investigations 1-3; All Parts</p>
<p>1.L2U2.7 Develop and use models about how living things use resources to grow and survive; design and evaluate habitats for organisms using earth materials.</p>	<p>FOSS Pathways Insects and Plants Investigation 1; Part 2 Investigation 2; Part 2</p>
<p>1.L2U1.8 Construct an explanation describing how organisms obtain resources from the environment including materials that are used again by other organisms.</p>	<p>FOSS Pathways Insects and Plants Investigation 1; Part 1 and Side Trip 1 Investigation 2; Side Trip 2 Investigation 3; Part 2</p>

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<p>1.L3U1.9 Obtain, evaluate, and communicate information to support an evidence-based explanation that plants and animals produce offspring of the same kind, but offspring are generally not identical to each other or their parents.</p>	<p align="center">FOSS Pathways Insects and Plants Investigation 3; Part 1</p>
<p>1.L4U1.10 Develop a model to describe how animals and plants are classified into groups and subgroups according to their similarities.</p>	<p align="center">FOSS Pathways Insects and Plants Investigation 1; Side Trip 1 Investigation 3; Part 1</p>
<p>1.L4U3.11 Ask questions and explain how factors can cause species to go extinct.</p>	<p align="center">Delta Science Reader Plant and Animal Populations</p>
<p>Core Idea U2: The knowledge produced by science is used in engineering and technologies to solve problems and/or create products.</p>	<p align="center">FOSS Pathways Sound and Light Investigation 2; Part 2 Investigation 3; Part 3</p>

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Grade 2	
Arizona Science Standard	Program Aligned to AZ Amphitheater Matrix
<p>2.P1U1.1 Plan and carry out an investigation to determine that matter has mass, takes up space, and is recognized by its observable properties; use the collected evidence to develop and support an explanation.</p>	<p>FOSS Pathways Solids and Liquids Investigation 1; Parts 1-3 Investigation 2; Parts 1-3 Investigation 3; Parts 1-3 FOSS Pathways Changes in the Sky Investigation 1; Side Trip 1</p>
<p>2.P1U1.2 Plan and carry out investigations to gather evidence to support an explanation on how heating or cooling can cause a phase change in matter.</p>	<p>FOSS Pathways Solids and Liquids Investigation 3; Part 2-3, Side Trip 1</p>
<p>2.P4U1.3 Obtain, evaluate and communicate information about ways heat energy can cause change in objects or materials.</p>	<p>FOSS Pathways Solids and Liquids Investigation 3; Part 2-3, Side Trip 1</p>
<p>2.E1U1.4 Observe and investigate how wind and water change the shape of the land resulting in a variety of landforms.</p>	<p>FOSS Pathways Water and Landforms Investigation 1; Parts 1-2 Investigation 2; Parts 1-2 Investigation 3; Parts 1-2 Investigation 4; Part 2</p>
<p>2.E1U1.5 Develop and use models to represent that water can exist in different states and is found in oceans, glaciers, lakes, rivers, ponds, and the atmosphere.</p>	<p>FOSS Pathways Water and Landforms Investigation 4; Parts 1-2</p>
<p>2.E1U2.6 Analyze patterns in weather conditions of various regions of the world and design, test, and refine solutions to protect humans from severe weather conditions.</p>	<p>FOSS Next Generation Air and Weather Investigation 3; Parts 2 and 4 FOSS Pathways Water and Landforms Investigation 3; Parts 1 and 3</p>
<p>2.E1U3.7 Construct an argument from evidence regarding positive and negative changes in water and land systems that impact humans and the environment.</p>	<p>FOSS Pathways Water and Landforms Investigation 4; Parts 1-2</p>
<p>2.E2U1.8 Observe and explain the Sun’s position at different times during a twenty-four-hour period and changes in the apparent shape of the Moon from one night to another.</p>	<p>FOSS Next Generation Air and Weather Investigation 2; Part 4 Investigation 4; Parts 1 and 2</p>

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<p>2.L2U1.9 Obtain, analyze, and communicate evidence that organisms need a source of energy, air, water, and certain temperature conditions to survive.</p>	<p align="center">FOSS Pathways Plants and Animals Investigations 1-4; All Parts</p>
<p>2.L2U1.10 Develop a model representing how life on Earth depends on energy from the Sun and energy from other organisms.</p>	<p align="center">FOSS Pathways Plants and Animals Investigation 1; Parts 1 and 2</p>
<p>Core Idea U2: The knowledge produced by science is used in engineering and technologies to solve problems and/or create products.</p>	<p align="center">FOSS Pathways Solids and Liquids Investigation 1; Part 3</p>

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Grade 3	
Arizona Science Standard	Program Aligned to AZ Amphitheater Matrix
3.P2U1.1 Ask questions and investigate the relationship between light, objects, and the human eye.	Delta Science Content Reader Heat and Light Energy
3.P1U1.2 Plan and carry out an investigation to explore how sound waves affect objects at varying distances.	FOSS Next Generation STEM Sound Design Investigation 3; Parts 1, 2, and 3
3.P4U1.3 Develop and use models to describe how light and sound waves transfer energy.	FOSS Next Generation STEM Sound Design Investigation 2; Part 1 Investigation 3; Part 3
3.E1U1.4 Construct an explanation describing how the Sun is the primary source of energy impacting Earth systems.	FOSS Pathways Water and Climate Investigation 3; Parts 2 and 3 FOSS Pathways Structures of Life Side Trip 3 Science Flex Readers Energy in the Web
3.L1U1.5 Develop and use models to explain that plants and animals (including humans) have internal and external structures that serve various functions that aid in growth, survival, behavior, and reproduction.	FOSS Pathways Structures of Life Investigations 1-3; All Parts
3.L2U1.6 Plan and carry out investigations to demonstrate ways plants and animals react to stimuli.	FOSS Pathways Structures of Life Investigation 3; Parts 2 and 3
3.L2U1.7 Develop and use system models to describe the flow of energy from the sun to and among living organisms.	FOSS Pathways Structures of Life Side Trip 3
3.L2U1.8 Construct an argument from evidence that organisms are interdependent.	FOSS Pathways Structures of Life Investigation 3; Part 3
Core Idea U2: The knowledge produced by science is used in engineering and technologies to solve problems and/or create products.	FOSS Next Generation STEM Sound Design Investigation 2; Part 3

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Grade 4	
Arizona Science Standard	Program Aligned to AZ Amphitheater Matrix
4.P4U1.1 Develop and use a model to demonstrate how a system transfers energy from one object to another even when the objects are not touching.	FOSS Pathways Energy Investigations 1-4; All parts
4.P4U1.2 Develop and use a model that explains how energy is moved from place to place through electric currents.	FOSS Pathways Energy Investigation 1; Parts 1-3
4.P2U1.3 Develop and use a model to demonstrate magnetic forces.	FOSS Pathways Energy Investigation 2; Parts 1-3
4P4U3.4 Engage in argument from evidence on the use and impact of renewable and nonrenewable resources to generate electricity.	FOSS Pathways Energy Investigation 1; Part 2
4.E1U1.5 Use models to explain seismic waves and their effect on the Earth.	FOSS Pathways Soils, Rocks, and Landforms Investigation 4; Part 1
4.E1U1.6 Plan and carry out an investigation to explore and explain the interactions between Earth’s major systems and the impact on Earth’s surface materials and processes.	FOSS Pathways Soils, Rocks, and Landforms Investigations 1-2; All Parts
4.E1U1.7 Develop and/or revise a model using various rock types, fossil location, and landforms to show evidence that Earth’s surface has changed over time.	FOSS Pathways Soils, Rocks, and Landforms Investigation 2; All Parts Investigation 4; Part 2
4.E1U1.8 Collect, analyze, and interpret data to explain weather and climate patterns.	Science Flex Readers <i>Our Active Earth</i>
4.E1U3.9 Construct and support an evidence-based argument about the availability of water and its impact on life.	FOSS Next Generation Environments Investigation 1; Parts 1 and 2
4.E1U2.10 Define problem(s) and design solution(s) to minimize the effects of natural hazards.	FOSS Pathways Soils, Rocks, and Landforms Investigation 2; Part 3

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<p>4.L4U1.11 Analyze and interpret environmental data to demonstrate that species either adapt and survive or go extinct over time.</p>	<p align="center">FOSS Next Generation Environments Investigation 3; Parts 2 and 3 Investigation 4; Parts 1 and 2 FOSS Pathways Soils, Rocks, and Landforms Investigation 4; Part 2</p>
<p>Core Idea U2: The knowledge produced by science is used in engineering and technologies to solve problems and/or create products.</p>	<p align="center">FOSS Pathways Soils, Rocks and Landforms Investigation 2; Part 3</p>

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Grade 5	
Arizona Science Standard	Program Aligned to AZ Amphitheater Matrix
<p>5.P1U11.1 Analyze and interpret data to explain that matter of any type can be subdivided into particles too small to see and, in a closed system, if properties change or chemical reactions occur, the amount of matter stays the same.</p>	<p>FOSS Pathways Mixtures and Solutions Investigation 1; All Parts Investigation 2; Part 3</p>
<p>5.P1U11.2 Plan and carry out investigations to demonstrate that some substances combine to form new substances with different properties and others can be mixed without taking on new properties.</p>	<p>FOSS Pathways Mixtures and Solutions Investigation 1; All Parts Investigation 4; All Parts</p>
<p>5.P2U1.3 Construct an explanation using evidence to demonstrate that objects can affect other objects even when they are not touching.</p>	<p>FOSS Pathways Earth and Sun Investigation 4; Part 1 FOSS Pathways Motion Investigation 1; Parts 1 and 2</p>
<p>5.P3U1.4 Obtain, analyze, and communicate evidence of the effects that balanced and unbalanced forces have on the motion of objects.</p>	<p>FOSS Pathways Motion Investigation 1; Part 3 Investigation 2; All Parts</p>
<p>5.P3U2.5 Define problems and design solutions pertaining to force and motion.</p>	<p>FOSS Pathways Motion Investigation 3; All Parts</p>
<p>5.P4U1.6 Analyze and interpret data to determine how and where energy is transferred when objects move.</p>	<p>FOSS Pathways Motion Investigation 1; Part 3</p>
<p>5.E2U1.7 Develop, revise, and use models based on evidence to construct explanations about the movement of the Earth and Moon within our solar system.</p>	<p>FOSS Pathways Earth and Sun Investigation 4; Parts 1 and 2</p>
<p>5.E2U1.8 Obtain, analyze, and communicate evidence to support an explanation that the gravitational force of Earth on objects is directed toward the planet’s center.</p>	<p>FOSS Pathways Earth and Sun Investigation 4; Part 1</p>
<p>5.L3U1.9 Obtain, evaluate, and communicate information about patterns between the offspring of plants, and the offspring of animals (including humans); construct an explanation of how genetic information is passed from one generation to the next.</p>	<p>Delta Science Content Reader <i>Heredity</i></p>

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<p>5.L3U1.10 Construct an explanation based on evidence that the changes in an environment can affect the development of the traits in a population of organisms.</p>	<p align="center">FOSS Pathways Living Systems Investigation 4; Part 1</p>
<p>5.L4U3.11 Obtain, evaluate, and communicate evidence about how natural and human-caused changes to habitats or climate can impact populations.</p>	<p align="center">FOSS Pathways Living Systems Investigation 3; Part 2 Investigation 4; Part 1</p>
<p>5.L4U3.12 Construct an argument based on evidence that inherited characteristics can be affected by behavior and/or environmental conditions.</p>	<p align="center">FOSS Pathways Living Systems Investigation 4; Part 1</p>
<p>Core Idea U2: The knowledge produced by science is used in engineering and technologies to solve problems and/or create products</p>	<p align="center">FOSS Pathways Mixtures and Solutions Investigation 1; Part 3 Investigation 4; Part 2 FOSS Pathways Motion Investigation 3; Parts 1 and 2</p>

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