

## Correlation with National Science Standards

Use the chart below to find Science A–Z units that best support the Next Generation Science Standards\* topics at kindergarten and several featured resources from those units that provide strong connections. Each Performance Expectation in the chart represents all three dimensions: Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts.



Storylines from Science A–Z present a coherent sequence of lessons that target the bundle of Performance Expectations within each topic in kindergarten. They include:

- [Pushes and Pulls](#) (Forces and Interactions: Pushes and Pulls)
- [Living Things and the Places Where They Live](#) (Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment)
- [Sunlight and Weather](#) (Weather and Climate)

K. Forces and Interactions: Pushes and Pulls		
Performance Expectations	Disciplinary Core Ideas	Science A–Z Units (Featured Resources)
K-PS2-1. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.	PS2.A: Forces and Motion	<a href="#">K–2 Things Move</a> (Unit Nonfiction Books; <i>Launch Weights with Rubber Bands</i> Process Activity; <i>Motion</i> Interactive Science Lesson) <a href="#">K–2 Doing Work</a> (Unit Nonfiction Books; <i>Trucks and Diggers</i> FOCUS Book)
	PS2.B: Types of Interactions	<a href="#">K–2 Things Move</a> ( <i>People Movers</i> Investigation Pack; <i>Amusement Park Rides</i> Quick Reads) <a href="#">K–2 Doing Work</a> ( <i>Tasks and Tools</i> Process Activity)
	PS3.C: Relationship Between Energy and Forces	<a href="#">K–2 Things Move</a> (Unit Nonfiction Books; <i>Forces That Make Things Move</i> Project-Based Learning Pack)
K-PS2-2. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.	PS2.A: Forces and Motion	<a href="#">K–2 Things Move</a> (Concept Books) <a href="#">K–2 Doing Work</a> (Unit Nonfiction Books; <i>Tasks and Tools</i> Process Activity) <a href="#">K–2 Data Sheets</a> ( <i>Keeping Records</i> Interactive Science Lesson)
	ETS1.A: Defining Engineering Problems	<a href="#">K–2 Things Move</a> (Unit Nonfiction Books; <i>Forces That Make Things Move</i> Project-Based Learning Pack; <i>Career Files</i> ) <a href="#">K–2 Doing Work</a> (Unit Nonfiction Books)

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K. Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment		
Performance Expectations	Disciplinary Core Ideas	Science A–Z Units (Featured Resources)
K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive.	LS1.C: Organization for Matter and Energy Flow in Organisms	<a href="#">K–2 Animals</a> (Unit Nonfiction Books; <i>Animals Around You</i> Process Activity) <a href="#">K–2 Plants</a> (Unit Nonfiction Books; <i>Plants, Water, and Sunlight</i> Process Activity; <i>City Gardening</i> FOCUS Book)
K-ESS2-2. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.	ESS2.E: Biogeology	<a href="#">K–2 Animals</a> ( <i>Animals in the Ground</i> FOCUS Book; <i>Animals of the Rivers</i> FOCUS Book) <a href="#">K–2 Plants</a> ( <i>Powerful Plants</i> FOCUS Book)
	ESS3.C: Human Impacts on Earth Systems	<a href="#">K–2 Earth's Surface</a> (Unit Nonfiction Books; Concept Books)
K-ESS3-1. Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live.	ESS3.A: Natural Resources	<a href="#">K–2 Animals</a> ( <i>What Animals Need</i> Investigation Pack) <a href="#">K–2 Plants</a> ( <i>What Plants Need</i> Investigation Pack; <i>Giant Sequoias</i> FOCUS Book)
K-ESS3-3. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.	ESS3.C: Human Impacts on Earth Systems	<a href="#">K–2 Earth's Surface</a> (Unit Nonfiction Books; <i>Drain the Swamp</i> Debate)
	ETS1.B: Developing Possible Solutions	<a href="#">K–2 Earth's Surface</a> ( <i>Erosion Control</i> Process Activity; <i>Making Land Useful</i> Project-Based Learning Pack)

K. Weather and Climate		
Performance Expectations	Disciplinary Core Ideas	Science A–Z Units (Featured Resources)
K-ESS2-1. Use and share observations of local weather conditions to describe patterns over time.	ESS2.D: Weather and Climate	<a href="#">K–2 Weather</a> ( <i>Weather Journal</i> Process Activity; <i>Cool Clouds</i> FOCUS Book; <i>Forecasting the Weather</i> FOCUS Book; <i>Forecasting the Weather</i> Project-Based Learning Pack)
K-ESS3-2. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.	ESS3.B: Natural Hazards	<a href="#">K–2 Weather</a> ( <i>Wind Investigation</i> Pack; <i>Harmful Hurricanes</i> FOCUS Book)
	ETS1.A: Defining and Delimiting an Engineering Problem	<a href="#">K–2 Weather</a> ( <i>Forecasting the Weather</i> Project-Based Learning Pack; <i>Hurricane Hunters</i> Video)
K-PS3-1. Make observations to determine the effect of sunlight on Earth’s surface.	PS3.B: Conservation of Energy and Energy Transfer	<a href="#">K–2 Weather</a> (Unit Nonfiction Books; <i>Our Shining Star</i> FOCUS Book; <i>Weather Journal</i> Process Activity) <a href="#">K–2 Earth, Moon, and Sun</a> (Unit Nonfiction Books; <i>Seasons and Sunlight</i> FOCUS Book)
K-PS3-2. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.	PS3.B: Conservation of Energy and Energy Transfer	<a href="#">K–2 Weather</a> ( <i>Our Shining Star</i> FOCUS Book)