



Kindergarten Science Units Scope

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	Unit: Molecules and Organisms	Unit: Earth's Systems	Unit: Energy
Performance Expectations	<p>Students who demonstrate understanding can:</p> <ul style="list-style-type: none"> Use observations to describe patterns of what plants and animals need to survive. 	<p>Students who demonstrate understanding can:</p> <ul style="list-style-type: none"> Use and share observations of local weather to describe patterns over time. Construct an argument supported by evidence for how plants and animals can change the environment to meet their needs. Use a model to represent the relationship between the needs of different plants or animals and the places they live. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. 	<p>Students who demonstrate understanding can:</p> <ul style="list-style-type: none"> Make observations to determine the effect of sunlight on Earth's surface. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.
Scientific Core Ideas	<p>Students who demonstrate understanding can describe that:</p> <ul style="list-style-type: none"> All animals need food in order to live and grow. They obtain their food from plants or from other animals. Plants need water and light to live and grow. 	<p>Students who demonstrate understanding can describe that:</p> <ul style="list-style-type: none"> Weather is the combination of sunlight, wind, snow or rain, and temperature in a particular region at a particular time. People measure these conditions to describe and record the weather and to notice patterns over time. Plants and animals can change their environment. Things that people do to live comfortably can affect the world around them. But they can make choices that reduce their impacts on the land, water, air, and other living things. Living things need water, air, and resources from the land, and they live in places that have the things they need. Humans use natural resources for everything they do. Some kinds of severe weather are more likely than others in a given region. Weather scientists forecast severe weather so that the communities can prepare for and respond to these events. Things that people do to live comfortably can affect the world around them. But they can make choices that reduce their impacts on the land, water, air, and other living things. Asking questions, making observations, and gathering information are helpful in thinking about problems. Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people. 	<p>Students who demonstrate understanding can describe that:</p> <ul style="list-style-type: none"> Sunlight warms Earth's surface.

	Molecules and Organisms	Earth's Systems	Energy
Language Arts Expectations	Students who demonstrate understanding can: <ul style="list-style-type: none"> Participate in shared research and writing projects. Explore non-fiction books and express opinions about them. 		
Mathematics Expectations	Students who demonstrate understanding can: <ul style="list-style-type: none"> Directly compare two objects with a measurable attribute in common, to see which object has “more of”/ “less of” the attribute, and describe the difference. Students who demonstrate understanding can:		
Engineering Expectations	Students who demonstrate understanding can: <ul style="list-style-type: none"> Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each perform. 		
Information and Technology Literacy	Students who demonstrate understanding can: <ul style="list-style-type: none"> Ask and answer such questions such as <i>who</i>, <i>what</i>, <i>where</i>, <i>when</i>, <i>why</i>, and <i>how</i> to demonstrate understanding. Use a variety of digital tools to produce, publish, and collaborate with peers. 		