



Second Grade Science Scope and Sequence

Theme	<p>OBSERVATIONS OF THE ENVIRONMENT</p> <p>This theme focuses on helping students develop the skills for systematic discovery to understand the science of the physical world around them in greater depth by using scientific inquiry.</p> <p>Strand Connections: Living and nonliving things may move. A moving object has energy. Air moving is wind and wind can make a windmill turn. Changes in energy and movement can cause change to organisms and the environments in which they live.</p>			
Spiraled Standards	<ul style="list-style-type: none"> ● SIA: SIA.1, SIA. 2, SIA. 3, SIA.4, SIA.5, SIA.6 ● RI: RI. 2.1, R.I. 2.2, RI. 2.5, RI. 2.7, RI. 2.9 ● ES: ES. 2.1 			
	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Strand	Life Science (Interactions with Habitats)	Life Science (Plants and Animals) Physical Science	Physical Science (Motion)	Earth Science (Atmosphere)
Content Statements	<ul style="list-style-type: none"> ● 2.LS.1 Living things cause changes on Earth. <p>Living things function and interact with their physical environments. Living things cause changes in the environments where they live; the changes can be very noticeable or slightly noticeable, fast or slow. (Scholars should be exposed to the various ways that interactions can cause changes in groups of living things and the physical environment – in nature or virtually).</p> <ul style="list-style-type: none"> ● 2.LS.2 All organisms alive today result from their ancestors, some of which may be extinct. Not all kinds of organisms that lived in the past are represented by living organisms today. <p>Some kinds of organisms become extinct when their basic needs are</p>	<ul style="list-style-type: none"> ● 2.LS.1 Living things cause changes on Earth. <p>Living things function and interact with their physical environments. Living things cause changes in the environments where they live; the changes can be very noticeable or slightly noticeable, fast or slow. (Scholars should be exposed to the various ways that interactions can cause changes in groups of living things and the physical environment – in nature or virtually).</p> <ul style="list-style-type: none"> ● 2.LS.2 All organisms alive today result from their ancestors, some of which may be extinct. Not all kinds of organisms that lived in the past are represented by living organisms today. <p>Some kinds of organisms become extinct when their basic needs are</p>	<ul style="list-style-type: none"> ● 2.PS1 Forces change the motion of an object. <p>Motion can increase, change direction or stop depending on the force applied.</p> <p>The change in motion of an object is related to the size of the force. Some forces act without touching, such as using a magnet to move an object or objects falling to the ground.</p>	<ul style="list-style-type: none"> ● 2.ES.1 The atmosphere is primarily made up of air. Air has properties that can be observed and measured. The transfer of energy in the atmosphere causes air movement, which is felt as wind. Wind speed and direction can be measured. ● 2.ES.2 Water is present in the atmosphere. <p>Water is present in the atmosphere as water vapor. When water vapor in the atmosphere cools, it forms clouds, fog, rain, ice, snow, sleet or hail.</p> <ul style="list-style-type: none"> ● 2.ES.3 Long- and short-term weather changes occur due to changes in energy.

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	<p>no longer met or the environment changes.</p>	<p>no longer met or the environment changes.</p> <ul style="list-style-type: none"> ● 2.PS1 Forces change the motion of an object. <p>Motion can increase, change direction or stop depending on the force applied.</p> <p>The change in motion of an object is related to the size of the force. Some forces act without touching, such as using a magnet to move an object or objects falling to the ground.</p>		<p>Changes in energy affect all aspects of weather, including temperature, precipitation amount and wind.</p>
<p>Resources</p>	<ul style="list-style-type: none"> ● Inspire McGraw Hill ● Non Fiction Text ● ODE Model Curriculum ● Wonders Resources: Leveled Readers- Apples from Farm to Table, Jungle Treasures, The Sick Tree, Penguins All Around, A Tree’s Life 	<ul style="list-style-type: none"> ● Inspire McGraw Hill ● Non Fiction Text ● ODE Model Curriculum ● Wonders Resources: Interactive Read Aloud- Earth Changes <p>Unit Opener- How Do Animals Play a Part in the World Around Us?</p> <p>Weekly Opener- Preserving Our Earth, Protecting the Earth, Our Changing Earth, The Earth Affects Us, Baby Animals, Animals Need Our Care</p> <p>Unit 4 Week 2 Earth Changes</p> <p>Leveled Readers- Let’s Carpool, A Speech to Remember, Family Night Unplugged, Rocky Mountain National Park, A Tree Full of Life, Inspired by Nature, The Ballgame</p>	<ul style="list-style-type: none"> ● Inspire McGraw Hill ● Non Fiction Text ● ODE Model Curriculum ● Wonders Resources: Leveled Readers- Forces at Work, Retelling Cards: Forces at Work <p>Unit 3 Week 1 Apples and Gravity</p>	<ul style="list-style-type: none"> ● Inspire McGraw Hill ● Non Fiction Text ● ODE Model Curriculum ● Wonders Resources: Interactive Read Aloud-Weather All Around, Clouds All Around, How Does Energy Make Your Hair Stand Up?, We need Energy, Energy Sources ● Leveled Readers: The Big Storm, Weather All Around, Rain Forests, The Fuel of the Future, Wind Power, Family Night Unplugged, Snow day, Snow Shape

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		<p>Between the Birds and the Animals: A Cherokee Folktale Why the Sun and the Moon Live in the Sky- audio stream, close reading, ebook Leveled Reader: Mouse’s Moon Party, Destination Saturn Unit 3 Week 2- The Hidden Sun</p>		<ul style="list-style-type: none"> • The Power of Water-audio stream (on Level)
STEAM	<p>STEAM Everywhere https://www.youtube.com/watch?v=BLMsgeyhVWc</p> <p>STEAM Careers https://www.youtube.com/watch?v=qyrQ1Yk8Ug</p>			