

## Science Scope & Sequence for 2018-2019 School Year 3rd Grade

Unit 1:	<div>Unit Teaching Window: Q1 Aug. 20 - Sept. 21</div> <div>Unit Assessment Window: Sept. 24 - 27</div> <div>MasteryConnect Window: Sept. 24 - Oct. 5</div>	<div>Discovery Techbook Resource Alignment</div> <div>Unit: Climate</div> <div>Concept: <a href="#">About Climate</a></div> <div><a href="#">Model Lesson in Techbook</a></div> <div>Unit: Weather</div> <div>Concepts: <a href="#">About Weather</a>, <a href="#">Protection from Severe Weather</a></div> <div><a href="#">Model Lesson in Techbook (About Weather)</a></div> <div><a href="#">Model Lesson in Techbook (Severe Weather)</a></div>
<div>Topic/Genre: <i>Climate and Weather</i></div> <div>Essential Question: How are climates different around the world?</div> <div>How do natural hazards affect individuals and societies?</div>	I Can Statements	<div>Climate Articles:</div> <div><a href="#">Factors that Affect Climate</a></div> <div><a href="#">What is Climate? Can it be measured?</a></div> <div><a href="#">Earth's Changing Climate</a></div>
	ESS2.D.2: Obtain and combine information to describe climates in different regions of the world.	<div>Climate Videos:</div> <div><a href="#">Climate</a></div> <div><a href="#">Weather and Climate</a></div> <div><a href="#">Where Can You Find Deserts</a></div> <div><a href="#">What is Climate?</a></div>
	*I can use multiple sources to describe climates in different regions of the world.	<div>Climate Explorations:</div> <div><a href="#">About Climate</a></div> <div><a href="#">Regional Climates</a></div>
	ESS2.D.1: Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.	<div>Hands on Activities for Climate:</div> <div><a href="#">World City Match</a> and <a href="#">Teacher's Guide</a></div> <div><a href="#">World City Match</a></div>
	*I can represent data in tables and graphs to describe typical weather conditions expected during a particular season.	<div>Climate Pictures:</div> <div><a href="#">Global Climates</a></div>
	ESS3.B: Make a claim about the merit of an existing design solution (levies, tornado shelters, sea walls, etc.) that reduces the impacts of weather-related hazard.	<div>Weather Videos:</div> <div><a href="#">Congo Weather: Storms</a></div> <div><a href="#">Discovery Science Alliance: What Day Comes After Today?</a></div>

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		<a href="#">The Weather is Different From Day to Day and Place to Place</a> <a href="#">How the Sun Affects Weather</a> <a href="#">Weather</a> <a href="#">Meteorology</a> <a href="#">Precipitation</a> <a href="#">Measuring Weather</a>
	*I can make a claim using evidence that existing designs reduce the impact of weather-related hazards.	<b>Weather Articles:</b> <a href="#">Getting to Know: About Weather</a> <a href="#">Storm Safety Tools and Inventions</a> <a href="#">Weather</a> <a href="#">Measure the Weather</a> <a href="#">Getting to Know: Weather Data</a>
		<b>Weather Explorations/Virtual Labs:</b> <a href="#">About Weather</a> <a href="#">What Shall We Do Tomorrow</a>
		<b>Hands on Activities for Weather:</b> <a href="#">Build a Barometer</a>
		<b>Severe Weather Videos:</b> <a href="#">Storms on the Plains</a> <a href="#">Hail</a> <a href="#">Tornado</a> <a href="#">How Thunderstorms are Formed</a> <a href="#">How Tornadoes and Hurricanes Form</a> <a href="#">Wildfires in the Northwest</a> <a href="#">Severe Storm Safety</a> <a href="#">Flood</a> <a href="#">Preparing a Severe Weather Kit</a>
		<b>Severe Weather Explorations:</b> <a href="#">Hurricanes</a>
		<b>Severe Weather Articles:</b> <a href="#">Storm Chasers</a> <a href="#">Hurricane Katrina</a>

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		<a href="#">Dangers of Severe Storms</a> <a href="#">Thunderstorms: Fact vs. Fiction</a> <a href="#">Tornado Alley</a>
<b>Unit 2:</b>	<b>Unit Teaching Window: Q2</b> <b>Oct. 1 - 29</b> <b>Unit Assessment Window: Oct. 30 - Nov. 2</b> <b>MasteryConnect Window: Oct 30 - Nov. 13</b>	<b>Discovery Techbook Resource Alignment</b> <b>Unit:</b> Properties and Interactions of Matter <b>Concept:</b> <a href="#">Changes in Matter</a>  <a href="#">Model Lesson in Techbook</a>
<b>Topic/Genre:</b> <i>Matter</i> <b>Essential Questions:</b> How can we explain the structure, properties, and interactions of matter?	<b>I Can Statements</b>	<b>Boards</b> <a href="#">Comparing and Contrasting</a>
	<b>PS1.A:</b> Predict and investigate that water can change from a liquid to a solid (freeze), and back again (melt), or from a liquid to a gas (evaporation), and back again (condensation) as the result of temperature changes	<b>Interactive Video</b> <a href="#">States and Properties of Matter</a>
	*I can explain how temperature changes affect the state of matter a liquid takes.	<b>Changes in Matter Videos</b> <a href="#">Heat Changes Things</a> (Applesauce) <a href="#">Observing Changes</a> (Applesauce) <a href="#">On Penguin Pond</a> (Song about reversible change) <a href="#">Melt the Ice</a> <a href="#">Baking the Cake and the Big Escape</a> Full Video: <a href="#">The Magic School Bus: Gets Ready, Set, Dough</a>
	<b>PS1.B:</b> Construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot.	
	*I can construct an argument with evidence that some changes caused by temperature can be reversed and some cannot.	

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<b>Unit 3:</b>	<b>Unit Teaching Window: Q2</b> <b>Nov. 14 - Dec. 11</b> <b>Unit Assessment Window: Dec. 12 - 17</b> <b>MasteryConnect Window: Dec. 12 - 20</b>	<b>Discovery Techbook Resource Alignment</b> <b>Unit:</b> Magnetism and Electricity <b>Concepts:</b> <a href="#">Magnets</a> , <a href="#">Magnets and Electricity (Supplemental)</a>  <a href="#">Model Lesson in Techbook (Magnets)</a> <a href="#">Model Lesson in Techbook (Magnets and Electricity)</a>
<b>Topic/Genre:</b> <i>Magnetism</i> <b>Essential Questions:</b> How can we explain and predict the interactions between objects within systems?	<b>I Can Statements</b>	<a href="#">Stations Board</a>
	<b>PS2.B:</b> Plan and conduct investigations to determine the cause and effect relationship of electric or magnetic interactions between two objects not in contact with each other.	<b>Magnets Videos:</b> <a href="#">Using Magnets</a> <a href="#">Introduction to Magnetism</a> <a href="#">Kinds of Magnets and Uses of Magnets</a> <a href="#">Attraction and Repulsion</a> <a href="#">Earth as a Magnet</a> <a href="#">Magnets Around Us</a> <a href="#">Magnetic Fields</a> <a href="#">What are Magnets?</a> <a href="#">Can Magnets Attract All Metals?</a> <a href="#">Magnetism in Medical Science</a>
	*I can determine the cause and effect relationship of electric or magnetic interactions between two objects.	<b>Magnets Exploration:</b> <a href="#">The Attraction is Mutual Magnets</a>
		<b>Hands on Activity:</b> <a href="#">Magnetic Poles</a>
		<b>Magnetic Articles:</b> <a href="#">A Floating Train</a> <a href="#">Cow Magnets</a> <a href="#">An Ancient Compass</a>

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UNIT	GRADE:	
Unit 4:	Unit Teaching Window: Q3 Jan. 8 - Feb.4 Unit Assessment Window: Feb. 5 - 8 MasteryConnect Window: Feb. 5 - 19	<b>Discovery Techbook Resource Alignment</b> <b>Unit:</b> Life Cycles of Organisms <b>Concepts:</b> <a href="#">Plant Life Cycles</a> , <a href="#">Animal Life Cycles</a> <a href="#">Model Lesson in Techbook (Plants)</a> <a href="#">Model Lesson in Techbook (Animals)</a>
<b>Topic/Genre:</b> <i>Life Cycles of Plants and Animals</i> <b>Essential Question:</b> What are the similarities and differences in the life cycles of plants and animals?	<b>I Can Statements</b>	<b>Plant Life Cycle Videos:</b> <a href="#">How Do Plants Grow?</a> <a href="#">Plants Come From Seeds</a> <a href="#">The Plant Life Cycle and Us</a> <a href="#">Life Cycle of Flowering Plants</a> <a href="#">Plants Without Seeds</a> <a href="#">Seed Dispersal</a> <a href="#">Seeds</a> <a href="#">Parts of a Plant</a> <a href="#">Plant Life Cycle: Beans</a>
	<b>LS1.B:</b> Develop a model to compare and contrast observations on the life cycle of different plants and animals.	<b>Hands on Activity:</b> <a href="#">From a Seed to a Plant</a> <a href="#">Plant Life Cycle Mobiles</a>
	*I can develop a model to compare and contrast observations on the life cycle of different plants and animals.	<b>Plant Life Cycle Exploration and Skill Builders:</b> <a href="#">Life Cycle Stages</a> <a href="#">Apple Tree Life Cycle</a> <a href="#">Pumpkin Life Cycle</a> <a href="#">Lima Bean Life Cycle</a> <a href="#">Sunflower Life Cycle</a>
		<b>Plant Life Cycle Articles:</b> <a href="#">What is a Seed?</a> <a href="#">Grow Your Own Roots</a> <a href="#">The Life Cycle of Plants</a> <a href="#">Trees and Flowers</a>

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Unit 5:	<b>Unit Teaching Window: Q3</b> <b>Feb. 11 - Mar. 15</b> <b>Unit Assessment Window: Mar. 25 - 28</b> <b>MasteryConnect Window: Mar. 25 - April 8</b> <b>NOTE: UNIT 5 STARTS IN QUARTER 3, BUT OVERLAPS INTO QUARTER 4 AND WILL BE ASSESSED ON 4TH QUARTER REPORT CARDS</b>	<b>Discovery Techbook Resource Alignment</b> <b>Unit: Ecosystems</b> <b>Concept: <a href="#">Interactions in Ecosystems</a></b> <b><a href="#">Model Lesson in Techbook</a></b>
<b>Topic/Genre:</b> <i>Interactions in Ecosystems</i> <b>Essential Questions:</b> How do the similarities and differences of organisms affect them in their environment?	<b>I Can Statements</b>	
	<b>LS3.D:</b> Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.	
	Animals live in a variety of habitats and change in those habitats affects the organisms living there	
	*I can explain/describe a variety of habitats.	
	*I can explain how the changes in a habitat can affect the organisms that live there.	
Unit 6:	<b>Unit Teaching Window: Q4</b> <b>Mar. 29 - Apr. 23</b> <b>Unit Assessment Window: Apr. 24 - 29</b> <b>MasteryConnect: Apr. 24 - May 1</b>	<b>Discovery Techbook Resource Alignment</b> <b>Unit: Traits and Inheritance</b> <b>Concept: <a href="#">Similarities of Parents and Offspring</a></b> <b><a href="#">Model Lesson in Techbook</a></b>
<b>Topic/Genre:</b> <i>Inheritance of Traits</i> <b>Essential Question:</b> How do organisms get their features?	<b>I Can Statements</b>	
	<b>LS3.A:</b> Construct scientific arguments to support claims that some characteristics of organisms are inherited from parents and some are influenced by the environment.	
	* I can use evidence to support that characteristics of organisms are influenced by the environment.	

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	*I can use evidence to support that characteristics of organisms are inherited from parents.	
<b>Unit 7:</b>	<b>Unit Teaching Window: Q4</b> <b>Apr. 29 - May 13</b> <b>Unit Assessment Window: May 14 - 17</b> <b>MasteryConnect Window: May 14 - May 21</b>	<b>Discovery Techbook Resource Alignment</b> <b>Unit:</b> Traits and Inheritance <b>Concept:</b> <a href="#">Adaptation</a> <a href="#">Model Lesson in Techbook</a>
<b>Topic/Genre:</b> <i>Adaptations</i> <b>Essential Questions:</b> How to organisms adapt to survive in their environment?	<b>I Can Statements</b>	
	<b>LS3.B:</b> Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving and finding mates	<b>Videos:</b> <a href="#">Adaptations for Different Environments</a>
	*I can explain how the variations of plants help them survive in their environment.	Runts of a litter!
	*I can explain how the variations of animals help them survive in their environment.	
	<b>LS3.C:</b> Construct an argument with evidence that in a particular ecosystem some organisms-- based on structural adaptations or behaviors-- can survive well, some survive less well, and some cannot.	
	*I can construct an argument with evidence why some organisms can survive better based on behaviors or adaptations.	