

## Course Scope and Sequence of Units

Course: Science

Unit Name	Key Subtopics	# of Days/Weeks
Fossils & Changing Environments	<ul style="list-style-type: none"> <li>3-LS4-1 Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.</li> </ul>	4 weeks
Life Cycles	<p>NGSS Performance Expectations:</p> <ul style="list-style-type: none"> <li>3-LS1-1               <ul style="list-style-type: none"> <li>Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.</li> </ul> </li> <li>3-LS4-4               <ul style="list-style-type: none"> <li>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.*</li> </ul> </li> <li>3-5-ETS1-2               <ul style="list-style-type: none"> <li>Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</li> </ul> </li> </ul>	6 weeks
Heredity, Survival, and Selections	<ul style="list-style-type: none"> <li>3-LS2-1. Construct an argument that some animals form groups that help members survive.</li> <li>3-LS3-1 Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variations of these traits exist in a group of similar organisms.</li> <li>3-LS3-2 Use evidence to support the explanation that traits can be influenced by the environment.</li> <li>3-LS4-2 Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.</li> </ul>	4 weeks

	<ul style="list-style-type: none"> <li>3-LS4-3 Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.</li> </ul>	
Weather & Climate	<ul style="list-style-type: none"> <li>3-ESS2-1 Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.</li> <li>3-ESS2-2 Obtain and combine information to describe climates in different regions of the world.</li> <li>3-ESS3-1 Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.</li> <li>3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.</li> <li>3-5-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</li> <li>3-5-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.</li> </ul>	4 Weeks
Forces, Motion, & Magnets	<p>NGSS Performance Expectations:</p> <ul style="list-style-type: none"> <li>3-PS2-1 <ul style="list-style-type: none"> <li>Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.</li> </ul> </li> <li>3-PS2-2 <ul style="list-style-type: none"> <li>Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.</li> </ul> </li> <li>3-PS2-3 <ul style="list-style-type: none"> <li>Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.</li> </ul> </li> <li>3-PS2-4 <ul style="list-style-type: none"> <li>Define a simple design problem that can be solved by applying scientific ideas about magnets.*</li> </ul> </li> <li>3-5-ETS1-1 <ul style="list-style-type: none"> <li>Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.</li> </ul> </li> <li>3-5-ETS1-2 <ul style="list-style-type: none"> <li>Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</li> </ul> </li> <li>3-5-ETS1-3</li> </ul>	4 Weeks

	<ul style="list-style-type: none"><li>○ Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.</li></ul>	
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