

**Green Township School District  
Grade 3 Marking Period Science Benchmarks**

Report Card Indicators				
3-PS2 Motion and Stability: Forces and Interactions	MP #1	MP #2	MP #3	
3-PS2-1. Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object	<ul style="list-style-type: none"> <li>Plan an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object</li> </ul>			
	<ul style="list-style-type: none"> <li>Conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object</li> </ul>			
3-PS2-2 Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.	<ul style="list-style-type: none"> <li>Make observations about an object's motion to provide evidence that a pattern can be used to predict future motion.</li> </ul>			
	<ul style="list-style-type: none"> <li>Make measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.</li> </ul>			
3-PS2-3 Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other	<ul style="list-style-type: none"> <li>Ask questions to determine cause and effect relationships of electric interactions between two objects not in contact with each other</li> </ul>			
	<ul style="list-style-type: none"> <li>Ask questions to determine cause and effect relationships of magnetic interactions between two objects not in contact with each other</li> </ul>			
3-PS2-4 Define a simple design problem that can be solved by applying scientific ideas about magnets.	<ul style="list-style-type: none"> <li>Define a simple design problem that can be solved by applying scientific ideas about magnets.</li> </ul>			

<b>3-LS1 From Molecules to Organisms: Structures and Processes</b>		<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
3-LS1-1. Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.	<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>			
<b>3-LS2 Ecosystems: Interactions, Energy, and Dynamics</b>		<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
3-LS2-1. Construct an argument that some animals form groups that help members survive	<ul style="list-style-type: none"> <li>Construct an argument that some animals form groups that help members survive</li> </ul>			
<b>3-LS3 Heredity: Inheritance and Variation of Traits</b>		<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
3-LS3-1. Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms	<ul style="list-style-type: none"> <li>Analyze data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms</li> </ul>			
	<ul style="list-style-type: none"> <li>Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms</li> </ul>			
3-LS3-2. Use evidence to support the explanation that traits can be influenced by the environment.	<ul style="list-style-type: none"> <li>Use evidence to support the explanation that traits can be influenced by the environment</li> </ul>			
<b>3-LS4 Biological Evolution: Unity and Diversity</b>		<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
3-LS4-1. Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which	<ul style="list-style-type: none"> <li>Analyze data from fossils to provide evidence of the organisms and the environments in which they lived long ago.</li> </ul>			
	<ul style="list-style-type: none"> <li>Interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.</li> </ul>			

they lived long ago.				
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.	<ul style="list-style-type: none"> <li>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>			
	<ul style="list-style-type: none"> <li>Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in finding mates</li> </ul>			
	<ul style="list-style-type: none"> <li>Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in reproducing.</li> </ul>			
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.	<ul style="list-style-type: none"> <li>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>			
3-LS4-4. 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.	<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 that live there may change.</li> </ul>			
	<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 animals that live there may change.</li> </ul>			
<b>3-ESS2 Earth's Systems</b>		<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
3-ESS2-1. Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.	<ul style="list-style-type: none"> <li>Represent data in tables to describe typical weather conditions expected during a particular season.</li> </ul>			
	<ul style="list-style-type: none"> <li>Represent data in graphical displays to describe typical weather conditions expected during a particular season.</li> </ul>			

3-ESS2-2. Obtain and combine information to describe climates in different regions of the world	<ul style="list-style-type: none"> <li>Obtain information to describe climates in different regions of the world</li> </ul>			
	<ul style="list-style-type: none"> <li>Combine information to describe climates in different regions of the world</li> </ul>			
<b>3-ESS3 Earth and Human Activity</b>		<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
3-ESS3-1. Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.	<ul style="list-style-type: none"> <li>Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.</li> </ul>			
<b>3-5-ETS1 Engineering Design</b>		<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
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.	<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>			
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.	<ul style="list-style-type: none"> <li>Generate multiple possible solutions to a problem</li> </ul>			
	<ul style="list-style-type: none"> <li>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>			
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.	<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>			

