

**McKinley Presidential Library & Museum  
Planetarium Show Ohio Science Standards  
Kindergarten**



MCKINLEY PRESIDENTIAL  
Library & Museum

<b>Strand:</b>	<b>Daily and Seasonal Changes</b>	<b><i>This topic focuses on observing, exploring, describing and comparing weather changes, patterns in the sky and changing seasons.</i></b>
<b>Earth</b>	Weather changes are long term and short term	<ul style="list-style-type: none"> <li>Weather changes occur throughout the day and from day to day. Air is a nonliving substance that surrounds Earth and wind is air that is moving. Wind, temperature and precipitation can be used to document short-term weather changes that are observable. Yearly weather changes (seasons) are observable patterns in the daily weather changes.</li> </ul>
<b>Strand:</b>	<b>Physical and Behavioral Traits of Living Things</b>	<b><i>This topic focuses on observing, exploring, describing and comparing living things in Ohio.</i></b>
<b>Life</b>	<i>These topics are not covered in the Planetarium Show.</i>	<i>These topics are not covered in the Planetarium Show.</i>
<b>Strand:</b>	<b>Properties of Everyday Objects and Materials</b>	<b><i>This topic focuses on the production of sound and on observing, exploring, describing and comparing the properties of objects and materials with which the student is familiar.</i></b>
<b>Physical</b>	<i>These topics are not covered in the Planetarium Show.</i>	<i>These topics are not covered in the Planetarium Show.</i>

***During the years of PreK to grade 4, all students must develop the ability to:***

- ***Observe and ask questions about the natural environment***
- ***Plan and conduct simple investigations***
- ***Employ simple equipment and tools to gather data and extend the senses***
- ***Use appropriate mathematics with data to construct reasonable explanations***
- ***Communicate about observations, investigations and explanations***
- ***Review and ask questions about the observations and explanations of others.***

(Ohio Dept. of Education, adopted 2011)

**McKinley Presidential Library & Museum  
Planetarium Ohio Science Standards  
First Grade**



MCKINLEY PRESIDENTIAL  
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<b>Strand:</b>	<b>Sun, Energy and Weather</b>	<b><i>This topic focuses on the sun as a source of energy and energy changes that occur to land, air and water.</i></b>
<b>Earth</b>	<p>The sun is the principal source of energy.</p>	<ul style="list-style-type: none"> <li>• Sunlight warms Earth's land, air and water. The amount of exposure to sunlight affects the amount of warming or cooling of air, water and land.</li> </ul>
<b>Strand:</b>	<b>Basic Needs of Living Things</b>	<b><i>This topic focuses on the physical needs of living things in Ohio. Energy from the sun or food, nutrients, water, shelter and air are some of the physical needs of living things.</i></b>
<b>Life</b>	<p>Living things have basic needs, which are met by obtaining materials from the physical environment.</p> <p>Living things survive only in environments that meet their needs.</p>	<ul style="list-style-type: none"> <li>• Living things require energy, water and a particular range of temperatures in their environments. Plants get energy from sunlight. Animals get energy from plants and other animals. Living things acquire resources from the living and nonliving components of the environment.</li> <li>• Resources are necessary to meet the needs of an individual and populations of individuals. Living things interact with their physical environments as they meet those needs. Effects of seasonal changes within the local environment directly impact the availability of resources.</li> </ul>
<b>Strand:</b>	<b>Motion and Materials</b>	<b><i>This topic focuses on the changes in properties that occur in objects and materials. Changes of position of an object are a result of pushing or pulling.</i></b>
<b>Physical</b>	<p>Properties of objects and materials can change.</p>	<ul style="list-style-type: none"> <li>• Objects and materials change when exposed to various conditions, such as heating or freezing. Not all materials change in the same way.</li> </ul>

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- Use appropriate mathematics with data to construct reasonable explanations***
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