

**McKinley Museum**

Program Synopsis

Discover World Tour

**Ohio State Science Content Standards**

**Grade: 2**

<i>Standard</i>	<i>Benchmark</i>	<i>Grade Level Indicator</i>
Earth and Space Sciences	<p>Explain that living things cause changes on Earth.</p> <p>Observe, describe and measure changes in the weather, both long term and short term.</p>	<p>Observe and describe that some weather changes occur throughout the day and some changes occur in a repeating seasonal pattern.</p> <p>Describe weather by measurable quantities such as temperature and precipitation.</p>
Science and Technology	<p>Explain why people, when building or making something, need to determine what it will be made of, how it will effect the other people and the environment.</p> <p>Explain that to construct something requires planning, communication, problem solving and tools.</p>	<p>Investigate why people make new products or invent new ways to meet their individual wants and needs.</p> <p>Predict how building or trying something new might affect other people and the environment.</p> <p>Communicate orally, pictorially, or in written form the design process used to make something.</p>

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Physical Sciences	<p>Discover that many objects are made of parts that have different characteristics. Describe these characteristics and recognize ways an object may change.</p> <p>Recognize that light, sound and objects move in different ways.</p> <p>Recognize sources of energy and their uses.</p>	<p>Explore how things make sound (e.g., rubber bands, tuning fork and strings).</p> <p>Explore with flashlights and shadows that light travels in a straight line until it strikes an object.</p> <p>Explore and describe sounds (e.g., high, low, soft and loud) produced by vibrating objects.</p>



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Life Sciences	<p>Discover that there are living things, nonliving things and pretend things, and describe the basic needs of living things (organisms).</p> <p>Explain how organisms function and interact with their physical environment.</p>	<p>Explain that animals, including people, need air, water, food, living space and shelter; plants need air, water, nutrients (e.g., minerals), living space and light to survive.</p> <p>Explain that food is a basic need of plants and animals (e.g., plants need sunlight to make food and to grow, animals eat plants and/or other animals for food, food chain) and is important because it is a source of energy (e.g., energy used to play, ride bicycles, read, etc.).</p> <p>Identify with that there are many distinct environments that support different kinds of organisms.</p> <p>Explain why organisms can survive only in environments that meet their needs (e.g., organisms that once lived on Earth have disappeared for different reasons such as natural forces or human-caused effects).</p> <p>Investigate the different structures of plants and animals that help them live in different environments (e.g., lungs, gills, leaves and roots).</p> <p>Compare the habitats of many different kinds of Ohio plants and animals and some of the ways animals depend on plants and each other.</p>

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Life Sciences (cont.)	<p>Explain how organisms function and interact with their physical environment. (cont.)</p> <p>Describe similarities and differences that exist among individuals of the same kind of plants and animals.</p>	<p>Compare the activities of Ohio's common animals (e.g., squirrels, chipmunks, deer, butterflies, bees, ants, bats and frogs) during the different seasons by describing changes in their appearance.</p> <p>Compare Ohio plants during the different seasons by describing changes in their appearance.</p> <p>Compare similarities and differences among individuals of the same kind of plants and animals, including people.</p>
Scientific Ways of Knowing	<p>Recognize the importance of respect for all living things.</p> <p>Recognize that diverse groups of people contribute to our understanding of the natural world.</p>	<p>Describe ways in which using the solution to a problem might affect other people and the environment.</p> <p>Demonstrate that in science it is helpful to work with a team and share findings with others.</p>