

# McKinley Museum

## Program Synopsis

### Discover World Tour

#### Ohio State Science Content Standards

#### Grade: 5

<i>Standard</i>	<i>Benchmark</i>	<i>Grade Level Indicator</i>
Scientific Ways of Knowing	<p>Distinguish between fact and opinion and explain how ideas and conclusions change as new knowledge is gained.</p> <p>Explain the importance of keeping records of observations that are understandable weeks or months later.</p> <p>Explain that men and women of diverse countries and cultures participate in careers in all fields of science.</p>	<p>Summarize how conclusions and ideas change as new knowledge is gained.</p> <p>Keep records of investigations and observations that are understandable weeks or months later.</p> <p>Identify a variety of scientific and technological work that people of all ages, backgrounds and groups perform.</p>
Science and Technology	<p>Describe how technology effects human life.</p>	<p>Investigate positive and negative impacts of human activity and technology on the environment.</p>

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Physical Sciences	Describe the properties of light and sound energy.	Explore and summarize observations of the transmission, bending (refraction) and reflection of light.  Describe and summarize observations of the transmission, reflection and absorption of sound.  Describe that changing the rate of vibration can vary the pitch of the sound.
Earth and Space Sciences	Summarize the processes that shape Earth's surface and describe evidence of those processes.  Describe Earth's resources including rocks, soil, water, air, animals and plants and the ways in which they can be conserved.	Explain how the supply of many nonrenewable resources is limited and can be extended through reducing, reusing and recycling but cannot be extended indefinitely.

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Life Sciences	<p>Differentiate between the life cycles of different plants and animals.</p> <p>Analyze plant and animal structures and functions needed for survival and describe the flow of energy through a system that all organisms use to survive.</p> <p>Compare changes in an organism's ecosystem/habitat that affect its survival.</p>	<p>Trace the organization of simple food chains and webs (e.g., producers, herbivores, carnivores, omnivores and decomposers).</p> <p>Summarize that organisms can survive only in ecosystems in which their needs can be met (e.g., food, water, shelter, air, carrying capacity and waste disposal). The world has different ecosystems and distinct ecosystems support the lives of different types of organisms.</p> <p>Support how an organism's patterns of behavior are related to the nature of that organism's ecosystem, including the kinds and numbers of other organisms present, the availability of food and resources, and the changing physical characteristics of the ecosystem.</p> <p>Analyze how all organisms, including humans, cause changes in their ecosystems and how these changes can be beneficial, neutral or detrimental (e.g., beaver ponds, earthworm burrows, grasshoppers eating plants, people planting and cutting trees and people introducing new species).</p>

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#### Ohio State Science Content Standards

#### Grade: 6

<i>Standard</i>	<i>Benchmark</i>	<i>Grade Level Indicator</i>
Earth and Space Sciences	Describe the processes that contribute to the continuous changing in Earth's surface (e.g., earthquakes, volcanic eruptions, erosion, mountain building and lithospheric plate movements).	
Life Sciences	Explain how extinction of a species occurs when the environment changes and its adaptive characteristics are insufficient to allow survival (as seen in evidence of the fossil record).	
Science and Technology	Give examples of how technological advances influenced by scientific knowledge, affect the quality of life.	Explain how technology affects the quality of life.
Scientific Ways of Knowing	Give examples of how thinking scientifically is helpful in daily life.	Identify ways scientific thinking is helpful in a variety of everyday settings.  Describe how the pursuit of scientific knowledge is beneficial for ay career and for daily life.