

McKinley Museum

Program Synopsis

Discover World Tour

Ohio State Science Content Standards

Grade: 7

<i>Standard</i>	<i>Benchmark</i>	<i>Grade Level Indicator</i>
Earth and Space Sciences	Describe the processes that contribute to the continuous changing of 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).	Investigate how overpopulation impacts an ecosystem. Explain that some environmental changes occur slowly while others occur rapidly (e.g., forest and pond succession, fires and decomposition).
Science and Technology	Give examples of how technological advances, influenced by scientific knowledge, affect the quality of life.	Recognize that science can only answer some questions and technology can only solve some human problems.
Scientific Ways of Knowing	Give examples of how thinking scientifically is helpful in daily life.	

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Grade: 8

<i>Standard</i>	<i>Benchmark</i>	<i>Grade Level Indicator</i>
Earth and Space Sciences	Describe the processes that contribute to the continuous changing of Earth's surface (e.g., earthquakes, volcanic eruptions, erosion, mountain building and lithospheric plate movements).	<p>Describe the interior structure of Earth and Earth's crust as divided into tectonic plates riding on top of the slow moving currents of magma in the mantle.</p> <p>Explain that most major geological events (e.g., earthquakes, volcanic eruptions, hot spots and mountain building) result from plate motion.</p>
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).	<p>Explain that diversity of species is developed through gradual processes over many generations (e.g., fossil record).</p> <p>Investigate how an organism adapted to a particular environment may become extinct if the environment, as shown by the fossil record, changes.</p>
Science and Technology	Give examples of how technological advances, influenced by scientific knowledge, affect the quality of life.	Examine how science and technology have advanced through the contributions of many different people, cultures and times in history.
Scientific Ways of Knowing	Give examples of how thinking scientifically is helpful in daily life.	

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Ohio State Science Content Standards

Grade: 9

<i>Standard</i>	<i>Benchmark</i>	<i>Grade Level Indicator</i>
Earth and Space Sciences	Explain the processes that move and shape the Earth's surface.	Explain the results of plate tectonic activity (e.g., magma generation, igneous intrusion, metamorphism, volcanic action, earthquakes, faulting and folding).
Scientific Ways of Knowing	<p>Explain how scientific inquiry is guided by knowledge, observations, ideas and questions.</p> <p>Recognize that scientific literacy is part of being a knowledgeable citizen.</p>	<p>Recognize that scientific knowledge and explanations have changed over time, almost always building on earlier knowledge.</p> <p>Illustrate that much can be learned about the internal workings of science and the nature of science from the study of scientists, their daily work and their efforts to advance scientific knowledge in their area of study.</p>