

Main Criteria: Mississippi College & Career Readiness Standards

Secondary Criteria: Virtual Field Trips

Subjects: Science, Social Studies

Grade: 8

Correlation Options: Show Correlated

Mississippi College & Career Readiness Standards

Science

Grade: 8 - Adopted: 2018

THEME	MS.L.8.	GRADE EIGHT : Life Science
SUBJECT		Reproduction and Heredity
STANDARD	L.8.2B.	Students will demonstrate an understanding of the differences in inherited and acquired characteristics and how environmental factors (natural selection) and the use of technologies (selective breeding, genetic engineering) influence the transfer of genetic information.

OBJECTIVE L.8.2B.1. Construct an argument based on evidence for how environmental and genetic factors influence the growth of organisms.

Virtual Field Trips

Galapagos Islands

THEME	MS.L.8.	GRADE EIGHT : Life Science
SUBJECT		Adaptation and Diversity
STANDARD	L.8.4A.	Students will demonstrate an understanding of the process of natural selection, in which variations in a population increase some individuals' likelihood of surviving and reproducing in a changing environment.

OBJECTIVE L.8.4A.1. Use various scientific resources to analyze the historical findings of Charles Darwin to explain basic principles of natural selection.

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Galapagos Islands

THEME	MS.L.8.	GRADE EIGHT : Life Science
SUBJECT		Adaptation and Diversity
STANDARD	L.8.4B.	Students will demonstrate an understanding of how similarities and differences among living and extinct species provide evidence that changes have occurred in organisms over time and that similarity of characteristics provides evidence of common ancestry.

OBJECTIVE L.8.4B.1. Analyze and interpret data (e.g. pictures, graphs) to explain how natural selection may lead to increases and decreases of specific traits in populations over time.

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Galapagos Islands

OBJECTIVE L.8.4B.3. Obtain and evaluate scientific information to explain that separated populations, that remain separated, can evolve through mutations to become a new species (speciation).

Virtual Field Trips

Galapagos Islands

THEME	MS.E.8.	GRADE EIGHT : Earth and Space Science
SUBJECT		Earth's Systems and Cycles
STANDARD	E.8.9A.	Students will demonstrate an understanding that physical processes and major geological events (e.g., plate movement, volcanic activity, mountain building, weathering, erosion) are powered by the Sun and the Earth's internal heat and have occurred over millions of years.

OBJECTIVE	E.8.9A.2.	Explore and debate theories of plate tectonics to form conclusions about past and current movements of rocks at Earth's surface throughout history. Virtual Field Trips Galapagos Islands National Parks - Alaska & Hawaii National Parks - Wyoming, Utah
OBJECTIVE	E.8.9A.3.	Map land and water patterns from various time periods and use rocks and fossils to report evidence of how Earth's plates have moved great distances, collided, and spread apart. Virtual Field Trips National Parks - Alaska & Hawaii National Parks - Wyoming, Utah
OBJECTIVE	E.8.9A.4.	Research and assess the credibility of scientific ideas to debate and discuss how Earth's constructive and destructive processes have changed Earth's surface at varying time and spatial scales. Virtual Field Trips National Parks - Alaska & Hawaii National Parks - Nevada, California National Parks - Washington, Oregon, Idaho, Montana, Colorado National Parks - Wyoming, Utah
OBJECTIVE	E.8.9A.5.	Use models that demonstrate convergent and divergent plate movements that are responsible for most landforms and the distribution of most rocks and minerals within Earth's crust. Virtual Field Trips National Parks - Alaska & Hawaii National Parks - Wyoming, Utah
OBJECTIVE	E.8.9A.7.	Explain the interconnected relationship between surface water and groundwater. Virtual Field Trips National Parks - Washington, Oregon, Idaho, Montana, Colorado

THEME	MS.E.8.	GRADE EIGHT: Earth and Space Science
SUBJECT		Earth's Resources
STANDARD	E.8.10.	Students will demonstrate an understanding that a decrease in natural resources is directly related to the increase in human population on Earth and must be conserved.

OBJECTIVE	E.8.10.1.	Read and evaluate scientific information about advancements in renewable and nonrenewable resources. Propose and defend ways to decrease national and global dependency on nonrenewable resources. Virtual Field Trips Amazon Rainforest - People and Threats - Grades 6-8
OBJECTIVE	E.8.10.2.	Create and defend a proposal for reducing the environmental effects humans have on Earth (e.g., population increases, consumer demands, chemical pollution, deforestation, and change in average annual temperature). Virtual Field Trips Amazon Rainforest - People and Threats - Grades 6-8 Canada: Coast to Coast Galapagos Islands National Parks - Alaska & Hawaii National Parks - Nevada, California National Parks - Washington, Oregon, Idaho, Montana, Colorado National Parks - Wyoming, Utah

OBJECTIVE	E.8.10.3.	Using scientific data, debate the societal advantages and disadvantages of technological advancements in renewable energy sources.
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Virtual Field Trips

Amazon Rainforest - People and Threats - Grades 6-8