

Main Criteria: Massachusetts Curriculum Frameworks

Secondary Criteria: Virtual Field Trips

Subjects: Science, Social Studies

Grade: 9

Correlation Options: Show Correlated

Massachusetts Curriculum Frameworks

Science

Grade: 9 - Adopted: 2016

FOCUS / COURSE	MA.HS-ESS.	High School Earth and Space Science
STRAND	ESS1.	Earth's Place in the Universe
STANDARD / CONCEPT / SKILL	HS-ESS1-5.	<p>Evaluate evidence of the past and current movements of continental and oceanic crust, the theory of plate tectonics, and relative densities of oceanic and continental rocks to explain why continental rocks are generally much older than rocks of the ocean floor.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1</p>
FOCUS / COURSE	MA.HS-ESS.	High School Earth and Space Science
STRAND	ESS2.	Earth's Systems
STANDARD / CONCEPT / SKILL	HS-ESS2-4.	<p>Use a model to describe how variations in the flow of energy into and out of Earth's systems over different time scales result in changes in climate. Analyze and interpret data to explain that long-term changes in Earth's tilt and orbit result in cycles of climate change such as Ice Ages.</p> <p><u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii The Amazon Rainforest - Part 1 - Older Grades</p>
STANDARD / CONCEPT / SKILL	HS-ESS2-5.	<p>Describe how the chemical and physical properties of water are important in mechanical and chemical mechanisms that affect Earth materials and surface processes.</p> <p><u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1</p>
STANDARD / CONCEPT / SKILL	HS-ESS2-6.	<p>Use a model to describe cycling of carbon through the ocean, atmosphere, soil, and biosphere and how increases in carbon dioxide concentrations due to human activity have resulted in atmospheric and climate changes.</p> <p><u>Virtual Field Trips</u> National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 2 - Older Grades</p>
FOCUS / COURSE	MA.HS-ESS.	High School Earth and Space Science
STRAND	ESS3.	Earth and Human Activity
STANDARD / CONCEPT / SKILL	HS-ESS3-1.	<p>Construct an explanation based on evidence for how the availability of key natural resources and changes due to variations in climate have influenced human activity.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol</p>

		National Parks - West - Alaska & Hawaii The Amazon Rainforest - Part 2 - Older Grades
STANDARD / CONCEPT / SKILL	HS-ESS3-3.	Illustrate relationships among management of natural resources, the sustainability of human populations, and biodiversity. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 2 - Older Grades
FOCUS / COURSE	MA.HS-LS.	High School Biology
STRAND	LS1.	From Molecules to Organisms: Structures and Processes
STANDARD / CONCEPT / SKILL	HS-LS1-3.	Provide evidence that homeostasis maintains internal body conditions through both body-wide feedback mechanisms and small-scale cellular processes. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks West - Nevada, California
FOCUS / COURSE	MA.HS-LS.	High School Biology
STRAND	LS2.	Ecosystems: Interactions, Energy, and Dynamics
STANDARD / CONCEPT / SKILL	HS-LS2-2.	Use mathematical representations to support explanations that biotic and abiotic factors affect biodiversity, including genetic diversity within a population and species diversity within an ecosystem. <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
STANDARD / CONCEPT / SKILL	HS-LS2-6.	Analyze data to show ecosystems tend to maintain relatively consistent numbers and types of organisms even when small changes in conditions occur but that extreme fluctuations in conditions may result in a new ecosystem. Construct an argument supported by evidence that ecosystems with greater biodiversity tend to have greater resistance to change and resilience. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol
STANDARD / CONCEPT / SKILL	HS-LS2-7.	Analyze direct and indirect effects of human activities on biodiversity and ecosystem health, specifically habitat fragmentation, introduction of non-native or invasive species, overharvesting, pollution, and climate change. Evaluate and refine a solution for reducing the impacts of human activities on biodiversity and ecosystem health. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
FOCUS / COURSE	MA.HS-LS.	High School Biology
STRAND	LS4.	Biological Evolution: Unity and Diversity
STANDARD / CONCEPT / SKILL	HS-LS4-2.	Construct an explanation based on evidence that Darwin's theory of evolution by natural selection occurs in a population when the following conditions are met: (a) more offspring are produced than

		<p>can be supported by the environment, (b) there is heritable variation among individuals, and (c) some of these variations lead to differential fitness among individuals as some individuals are better able to compete for limited resources than others.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espanol</p>
STANDARD / CONCEPT / SKILL	HS-LS4-4.	<p>Research and communicate information about key features of viruses and bacteria to explain their ability to adapt and reproduce in a wide variety of environments.</p> <p><u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espanol) The Amazon Rainforest - Part 1 - Older Grades</p>
STANDARD / CONCEPT / SKILL	HS-LS4-5.	<p>Evaluate models that demonstrate how changes in an environment may result in the evolution of a population of a given species, the emergence of new species over generations, or the extinction of other species due to the processes of genetic drift, gene flow, mutation, and natural selection.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espanol</p>
FOCUS / COURSE	MA.HS-PS.	High School Introductory Physics
STRAND	PS2.	Motion and Stability: Forces and Interaction
STANDARD / CONCEPT / SKILL	HS-PS2-10(MA).	<p>Use free-body force diagrams, algebraic expressions, and Newton's laws of motion to predict changes to velocity and acceleration for an object moving in one dimension in various situations.</p> <p><u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii</p>
FOCUS / COURSE	MA.HS-ETS.	High School Technology/Engineering
STRAND	ETS2.	Materials, Tools, and Manufacturing
STANDARD / CONCEPT / SKILL	HS-ETS2-1(MA).	<p>Determine the best application of manufacturing processes to create parts of desired shape, size, and finish based on available resources and safety.</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>
STANDARD / CONCEPT / SKILL	HS-ETS2-2(MA).	<p>Explain how computers and robots can be used at different stages of a manufacturing system, typically for jobs that are repetitive, very small, or very dangerous.</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>
STANDARD / CONCEPT / SKILL	HS-ETS2-3(MA).	<p>Compare the costs and benefits of custom versus mass production based on qualities of the desired product, the cost of each unit to produce, and the number of units needed.</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>
STANDARD / CONCEPT / SKILL	HS-ETS2-4(MA).	<p>Explain how manufacturing processes transform material properties to meet a specified purpose or function. Recognize that new materials can be synthesized through chemical and physical processes that are designed to manipulate material properties to meet a desired performance condition.</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>

Social Studies

Grade: 9 - Adopted: 2003

FOCUS / COURSE	MA.USI.	U.S. History I (The Revolution through Reconstruction, 1763-1877)
STRAND		THE FORMATION AND FRAMEWORK OF AMERICAN DEMOCRACY
STANDARD / CONCEPT / SKILL	USI.14.	<p>Explain the characteristics of American democracy, including the concepts of popular sovereignty and constitutional government, which includes representative institutions, federalism, separation of powers, shared powers, checks and balances, and individual rights. (H, C)</p> <p><u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12</p>
STANDARD / CONCEPT / SKILL	USI.16.	<p>Describe the evolution of the role of the federal government, including public services, taxation, economic policy, foreign policy, and common defense. (H, C)</p> <p><u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol</p>

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