

Main Criteria: DC Educational Standards

Secondary Criteria: Virtual Field Trips

Subjects: Science, Social Studies

Grade: 9

Correlation Options: Show Correlated

DC Educational Standards

Science

Grade: 9 - Adopted: 2013

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-LS.	LIFE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-LS1.	From Molecules to Organisms: Structures and Processes
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
EXPECTATION	HS-LS1-3.	Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks West - Nevada, California The Amazon Rainforest - Part 1 - Older Grades
CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-LS.	LIFE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-LS2.	Ecosystems: Interactions, Energy, and Dynamics
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
EXPECTATION	HS-LS2-2.	Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems of different scales. <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
EXPECTATION	HS-LS2-3.	Construct and revise an explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions. <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
EXPECTATION	HS-LS2-4.	Use mathematical representations to support claims for the cycling of matter and flow of energy among organisms in an ecosystem. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades

EXPECTATION	HS-LS2-6.	Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
EXPECTATION	HS-LS2-7.	Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment 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
EXPECTATION	HS-LS2-8.	Evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah
CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-LS.	LIFE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-LS4.	Biological Evolution: Unity and Diversity
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
EXPECTATION	HS-LS4-2.	Construct an explanation based on evidence that the process of evolution primarily results from four factors: (1) the potential for a species to increase in number, (2) the heritable genetic variation of individuals in a species due to mutation and sexual reproduction, (3) competition for limited resources, and (4) the proliferation of those organisms that are better able to survive and reproduce in the environment. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol
EXPECTATION	HS-LS4-4.	Construct an explanation based on evidence for how natural selection leads to adaptation of populations. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol
EXPECTATION	HS-LS4-5.	Evaluate the evidence supporting claims that changes in environmental conditions may result in: (1) increases in the number of individuals of some species, (2) the emergence of new species over time, and (3) the extinction of other species. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol The Amazon Rainforest - Part 2 - Older Grades
EXPECTATION	HS-LS4-6.	Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on 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
CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ESS.	EARTH AND SPACE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-ESS1.	Earth's Place in the Universe
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
EXPECTATION	HS-ESS1-5.	Evaluate evidence of the past and current movements of continental and oceanic crust and the theory of plate tectonics to explain the ages of crustal rocks. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ESS.	EARTH AND SPACE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-ESS2.	Earth's Systems
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
EXPECTATION	HS-ESS2-1.	Develop a model to illustrate how Earth's internal and surface processes operate at different spatial and temporal scales to form continental and ocean-floor features. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
EXPECTATION	HS-ESS2-2.	Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth's systems. <u>Virtual Field Trips</u> National Parks West - Nevada, California National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 2 - Older Grades
EXPECTATION	HS-ESS2-4.	Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate. <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 1 - Older Grades
EXPECTATION	HS-ESS2-5.	Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
EXPECTATION	HS-ESS2-6.	Develop a quantitative model to describe the cycling of carbon among the hydrosphere, atmosphere, geosphere, and biosphere. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ESS.	EARTH AND SPACE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-ESS3.	Earth and Human Activity
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
EXPECTATION	HS-ESS3-1.	<p>Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii The Amazon Rainforest - Part 2 - Older Grades</p>
EXPECTATION	HS-ESS3-2.	<p>Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 2 - Older Grades</p>
EXPECTATION	HS-ESS3-3.	<p>Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.</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 The Amazon Rainforest - Part 2 - Older Grades</p>
EXPECTATION	HS-ESS3-4.	<p>Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol</p>
EXPECTATION	HS-ESS3-5.	<p>Analyze geoscience data and the results from global climate models to make an evidence-based forecast of the current rate of global or regional climate change and associated future impacts to Earth systems.</p> <p><u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1</p>
EXPECTATION	HS-ESS3-6.	<p>Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California The Amazon Rainforest - Part 2 - Older Grades</p>
CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ETS.	ENGINEERING DESIGN
STANDARD / ESSENTIAL SKILL	HS-ETS1.	Engineering Design

STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
EXPECTATION	HS-ETS1-1.	<p>Analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants.</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>

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