

Main Criteria: Iowa Core
Secondary Criteria: Virtual Field Trips
Subjects: Science, Social Studies
Grade: 9
Correlation Options: Show Correlated

Iowa Core
Science
Grade: 9 - Adopted: 2015

STRAND / COURSE	IA.HS-LS1.	From Molecules to Organisms: Structures and Processes
ESSENTIAL CONCEPT AND/OR SKILL		Students who demonstrate understanding can:
DETAILED DESCRIPTOR	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
STRAND / COURSE	IA.HS-LS2.	Ecosystems: Interactions, Energy, and Dynamics
ESSENTIAL CONCEPT AND/OR SKILL		Students who demonstrate understanding can:
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
STRAND / COURSE	IA.HS-LS4.	Biological Evolution: Unity and Diversity
ESSENTIAL CONCEPT AND/OR SKILL		Students who demonstrate understanding can:
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
STRAND / COURSE	IA.HS-ESS1.	Earth's Place in the Universe
ESSENTIAL CONCEPT AND/OR SKILL		Students who demonstrate understanding can:
DETAILED DESCRIPTOR	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
STRAND / COURSE	IA.HS-ESS2.	Earth's Systems
ESSENTIAL CONCEPT AND/OR SKILL		Students who demonstrate understanding can:
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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 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
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
DETAILED DESCRIPTOR	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
STRAND / COURSE	IA.HS-ESS3.	Earth and Human Activity
ESSENTIAL CONCEPT AND/OR SKILL		Students who demonstrate understanding can:
DETAILED DESCRIPTOR	HS-ESS3-1.	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. <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
DETAILED DESCRIPTOR	HS-ESS3-2.	Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios.

		<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
DETAILED DESCRIPTOR	HS-ESS3-3.	Create a computational simulation to illustrate the 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
DETAILED DESCRIPTOR	HS-ESS3-4.	Evaluate or refine a technological solution that reduces impacts of human activities on natural systems. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol
DETAILED DESCRIPTOR	HS-ESS3-5.	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. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1
DETAILED DESCRIPTOR	HS-ESS3-6.	Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity. <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
STRAND / COURSE	IA.HS-ETS1.	Engineering Design
ESSENTIAL CONCEPT AND/OR SKILL		Students who demonstrate understanding can:
DETAILED DESCRIPTOR	HS-ETS1-1.	Analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades

Iowa Core
Social Studies

Grade: 9 - Adopted: 2010

STRAND / COURSE	IA.B.	Behavioral Sciences
ESSENTIAL CONCEPT AND/OR SKILL	B.6.	Understand the process of how humans develop, learn, adapt to their environment, and internalize their culture.
DETAILED DESCRIPTOR	B.6.3.	Understand the concept of culture. <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
STRAND / COURSE	IA.E.	Economics
ESSENTIAL CONCEPT AND/OR SKILL	E.3.	Understand the functions of economic institutions.
DETAILED DESCRIPTOR	E.3.1.	Understand the basic functions of money. <u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol
DETAILED DESCRIPTOR	E.3.2.	Understand the composition of the money supply. <u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol
STRAND / COURSE	IA.G.	Geography
ESSENTIAL CONCEPT AND/OR SKILL	G.2.	Understand how physical and human characteristics create and define regions.
DETAILED DESCRIPTOR	G.2.1.	Understand culture as an integrated whole that explains the function and interactions of language, literature, the arts, traditions, beliefs and values and behavior patterns. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
STRAND / COURSE	IA.G.	Geography
ESSENTIAL CONCEPT AND/OR SKILL	G.4.	Understand how physical and human processes shape the Earth's surface and major ecosystems.
DETAILED DESCRIPTOR	G.4.1.	Understand relationships between soil, climate, plant and animal life affect the distributions of ecosystems. <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 The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
DETAILED DESCRIPTOR	G.4.2.	Understand the importance of ecosystems in understanding the environment. <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 The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
DETAILED DESCRIPTOR	G.4.4.	Understand social, cultural and economic processes shape the features of places. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
DETAILED DESCRIPTOR	G.4.5.	Understand the effects of human and physical changes in ecosystems both locally and globally. <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

		The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
STRAND / COURSE	IA.G.	Geography
ESSENTIAL CONCEPT AND/OR SKILL	G.7.	Understand how cultural factors influence the design of human communities.
DETAILED DESCRIPTOR	G.7.2.	Understand cultures influence the characteristics of regions. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
DETAILED DESCRIPTOR	G.7.3.	Understand people create places that reflect culture, human needs, government policy, and current values and ideals as they design and build places. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
STRAND / COURSE	IA.H.	History
ESSENTIAL CONCEPT AND/OR SKILL	H.3.	Understand the role of culture and cultural diffusion on the development and maintenance of societies.
DETAILED DESCRIPTOR	H.3.1.	Understand the ways groups, societies, and cultures have addressed human needs and concerns in the past. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
DETAILED DESCRIPTOR	H.3.4.	Understand the origins, central ideas, and global influence of world religions <u>Virtual Field Trips</u> Jerusalem - Then and Now (Older Grades)
STRAND / COURSE	IA.H.	History
ESSENTIAL CONCEPT AND/OR SKILL	H.4.	Understand the role of individuals and groups within a society as promoters of change or the status quo.
DETAILED DESCRIPTOR	H.4.2.	Understand the role the values of specific people in history played in influencing history. <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12
STRAND / COURSE	IA.H.	History
ESSENTIAL CONCEPT AND/OR SKILL	H.6.	Understand the effects of geographic factors on historical events.
DETAILED DESCRIPTOR	H.6.1.	Understand ways that historical events have been influenced by, and have influenced, physical and human geographic factors in local, regional, national, and global settings. <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
STRAND / COURSE	IA.PS.	Political Science/Civic Literacy
ESSENTIAL CONCEPT AND/OR SKILL	PS.4.	Understand the differences among the complex levels of local, state and national government and their inherent, expressed, and implied powers.
DETAILED DESCRIPTOR	PS.4.1.	Understand the design and features of the Constitution prevent the abuse of power by aggregating power at the national, state, and local levels and using a system of checks and balances. <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12

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