

Main Criteria: South Carolina Standards & Learning

Secondary Criteria: Virtual Field Trips

Subjects: Science, Social Studies

Grade: 8

Correlation Options: Show Correlated

South Carolina Standards & Learning

Science

Grade: 8 - Adopted: 2014

STANDARD / COURSE	SC.8.S.	SCIENCE AND ENGINEERING PRACTICES
KNOWLEDGE AND SKILLS / ESSENTIAL QUESTION	8.S.1.	The student will use the science and engineering practices, including the processes and skills of scientific inquiry, to develop understandings of science content.
PERFORMANCE DESCRIPTOR / STANDARD	8.S.1A.	Conceptual Understanding: The practices of science and engineering support the development of science concepts, develop the habits of mind that are necessary for scientific thinking, and allow students to engage in science in ways that are similar to those used by scientists and engineers.
GRADE LEVEL EXAMPLE / STAGE		Students who demonstrate this understanding can:
INDICATOR	8.S.1A.5.	Use mathematical and computational thinking to (1) use and manipulate appropriate metric units, (2) collect and analyze data, (3) express relationships between variables for models and investigations, or (4) use grade-level appropriate statistics to analyze data. <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
STANDARD / COURSE	SC.8.P.	PHYSICAL SCIENCE: FORCES AND MOTION
KNOWLEDGE AND SKILLS / ESSENTIAL QUESTION	8.P.2.	The student will demonstrate an understanding of the effects of forces on the motion and stability of an object.
PERFORMANCE DESCRIPTOR / STANDARD	8.P.2A.	Conceptual Understanding: Motion occurs when there is a change in position of an object with respect to a reference point. The final position of an object is determined by measuring the change in position and direction of the segments along a trip. While the speed of the object may vary during the total time it is moving, the average speed is the result of the total distance divided by the total time taken. Forces acting on an object can be balanced or unbalanced. Varying the amount of force or mass will affect the motion of an object. Inertia is the tendency of objects to resist any change in motion.
GRADE LEVEL EXAMPLE / STAGE		Students who demonstrate this understanding can:
INDICATOR	8.P.2A.7.	Use mathematical and computational thinking to describe the relationship between the speed and velocity (including positive and negative expression of direction) of an object in determining average speed ($v=d/t$). <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii
STANDARD / COURSE	SC.8.E.	EARTH SCIENCE: EARTH'S PLACE IN THE UNIVERSE
KNOWLEDGE AND SKILLS / ESSENTIAL QUESTION	8.E.4.	The student will demonstrate an understanding of the universe and the predictable patterns caused by Earth's movement in the solar system.
PERFORMANCE DESCRIPTOR / STANDARD	8.E.4B.	Conceptual Understanding: Earth's solar system consists of the Sun and other objects that are held in orbit around the Sun by its gravitational pull on them. Motions within the Earth-Moon-Sun system have effects that can be observed on Earth.

GRADE LEVEL EXAMPLE / STAGE		Students who demonstrate this understanding can:
INDICATOR	8.E.4B.6	Analyze and interpret data from the surface features of the Sun (including photosphere, corona, sunspots, prominences, and solar flares) to predict how these features may affect Earth. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii
STANDARD / COURSE	SC.8.E.	EARTH SCIENCE: EARTH SYSTEMS AND RESOURCES
KNOWLEDGE AND SKILLS / ESSENTIAL QUESTION	8.E.5.	The student will demonstrate an understanding of the processes that alter the structure of Earth and provide resources for life on the planet.
PERFORMANCE DESCRIPTOR / STANDARD	8.E.5A.	Conceptual Understanding: All Earth processes are the result of energy flowing and matter cycling within and among Earth's systems. Because Earth's processes are dynamic and interactive in nature, the surface of Earth is constantly changing. Earth's hot interior is a main source of energy that drives the cycling and moving of materials. Plate tectonics is the unifying theory that explains the past and current crustal movements at the Earth's surface. This theory provides a framework for understanding geological history.
GRADE LEVEL EXAMPLE / STAGE		Students who demonstrate this understanding can:
INDICATOR	8.E.5A.1.	Develop and use models to explain how the processes of weathering, erosion, and deposition change surface features in the environment. <u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
INDICATOR	8.E.5A.4.	Construct explanations for how the theory of plate tectonics accounts for (1) the motion of lithospheric plates, (2) the geologic activities at plate boundaries, and (3) the changes in landform areas over geologic time. <u>Virtual Field Trips</u> Galapagos Islands 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
INDICATOR	8.E.5A.5.	Construct and analyze scientific arguments to support claims that plate tectonics accounts for (1) the distribution of fossils on different continents, (2) the occurrence of earthquakes, and (3) continental and ocean floor features (including mountains, volcanoes, faults and trenches). <u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol National Parks West - Nevada, California National Parks West - Wyoming, Utah
STANDARD / COURSE	SC.8.E.	EARTH SCIENCE: EARTH SYSTEMS AND RESOURCES
KNOWLEDGE AND SKILLS / ESSENTIAL QUESTION	8.E.5.	The student will demonstrate an understanding of the processes that alter the structure of Earth and provide resources for life on the planet.
PERFORMANCE DESCRIPTOR / STANDARD	8.E.5B.	Conceptual Understanding: Natural processes can cause sudden or gradual changes to Earth's systems. Some may adversely affect

		humans such as volcanic eruptions or earthquakes. Mapping the history of natural hazards in a region, combined with an understanding of related geological forces can help forecast the locations and likelihoods of future events.
GRADE LEVEL EXAMPLE / STAGE		Students who demonstrate this understanding can:
INDICATOR	8.E.5B.1.	Analyze and interpret data to describe patterns in the location of volcanoes and earthquakes related to tectonic plate boundaries, interactions, and hot spots. <u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah
INDICATOR	8.E.5B.2.	Construct explanations of how forces inside Earth result in earthquakes and volcanoes. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
INDICATOR	8.E.5B.3.	Define problems that may be caused by a catastrophic event resulting from plate movements and design possible devices or solutions to minimize the effects of that event on Earth's surface and/or human structures. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
STANDARD / COURSE	SC.8.E.	EARTH SCIENCE: EARTH SYSTEMS AND RESOURCES
KNOWLEDGE AND SKILLS / ESSENTIAL QUESTION	8.E.5.	The student will demonstrate an understanding of the processes that alter the structure of Earth and provide resources for life on the planet.
PERFORMANCE DESCRIPTOR / STANDARD	8.E.5C.	Conceptual Understanding: Humans depend upon many Earth resources – some renewable over human lifetimes and some nonrenewable or irreplaceable. Resources are distributed unevenly around the planet as a result of past geological processes.
GRADE LEVEL EXAMPLE / STAGE		Students who demonstrate this understanding can:
INDICATOR	8.E.5C.1.	Obtain and communicate information regarding the physical and chemical properties of minerals, ores, and fossil fuels to describe their importance as Earth resources. <u>Virtual Field Trips</u> National Parks West - Wyoming, Utah
STANDARD / COURSE	SC.8.E.	EARTH SCIENCE: EARTH'S HISTORY AND DIVERSITY OF LIFE
KNOWLEDGE AND SKILLS / ESSENTIAL QUESTION	8.E.6.	The student will demonstrate an understanding of Earth's geologic history and its diversity of life over time.
PERFORMANCE DESCRIPTOR / STANDARD	8.E.6B.	Conceptual Understanding: Adaptation by natural selection acting over generations is one important process by which species change in response to changes in environmental conditions. The resources of biological communities can be used within sustainable limits, but if the ecosystem becomes unbalanced in ways that prevent the sustainable use of resources, then ecosystem degradation and species extinction can occur.
GRADE LEVEL EXAMPLE / STAGE		Students who demonstrate this understanding can:
INDICATOR	8.E.6B.1.	Construct explanations for how biological adaptations and genetic variations of traits in a population enhance the probability of

		<p>survival in a particular environment.</p> <p><u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades</p>
INDICATOR	8.E.6B.2.	<p>Obtain and communicate information to support claims that natural and human-made factors can contribute to the extinction of species.</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>

**South Carolina Standards & Learning
Social Studies**

Grade: 8 - Adopted: 2011

STANDARD / COURSE	SC.8-SSLS.	Social Studies Literacy Skills for the Twenty-First Century
KNOWLEDGE AND SKILLS / ESSENTIAL QUESTION	8-SSLS.1.	Literacy Skills for Social Studies
PERFORMANCE DESCRIPTOR / STANDARD	8-SSLS.1.3.	<p>Compare the locations of places, the conditions at places, and the connections between places.</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>
PERFORMANCE DESCRIPTOR / STANDARD	8-SSLS.1.4.	<p>Explain why trade occurs and how historical patterns of trade have contributed to global interdependence.</p> <p><u>Virtual Field Trips</u> Exploring Cuba</p>
PERFORMANCE DESCRIPTOR / STANDARD	8-SSLS.1.6.	<p>Identify and explain the relationships among multiple causes and multiple effects.</p> <p><u>Virtual Field Trips</u> Ancient Egypt - Land of the Pharaohs Ancient Egypt - Land of the Pyramids Ancient Greece - Birthplace of Democracy Ancient Mayan Civilization Rome - The Eternal City - Part 1 Rome - The Eternal City - Part 2</p>
PERFORMANCE DESCRIPTOR / STANDARD	8-SSLS.1.10.	<p>Interpret Earth's physical and human systems by using maps, mental maps, geographic models, and other social studies resources.</p> <p><u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol Canada - An Overview Exploring Cuba La Selva Amazonica - Pte 1 (En Espagnol) London - City of Pomp & Majesty National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 Paris - City of Light - Grades 6 - 12 Paris - La Ville Lumiere (En Francais) The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades Tokyo - City of Contrasts</p>

Grade: 8 - Adopted: 2010

STANDARD / COURSE	SC.CC.RH.6-8.	Reading Standards for Literacy in History/Social Studies
KNOWLEDGE AND SKILLS / ESSENTIAL QUESTION		Integration of Knowledge and Ideas
PERFORMANCE DESCRIPTOR / STANDARD	RH.6-8.7.	<p>Integrate visual information (e.g., in charts, graphs, photographs, videos, or maps) with other information in print and digital texts.</p> <p><u>Virtual Field Trips</u> Ancient Egypt - Land of the Pharaohs Ancient Egypt - Land of the Pyramids Ancient Greece - Birthplace of Democracy Ancient Mayan Civilization Barcelona - English Barcelona - Espagnol Canada - An Overview Exploring Cuba Galapagos Islands Jerusalem - Then and Now (Older Grades) La Selva Amazonica - Pte 1 (En Espagnol) London - City of Pomp & Majesty National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 Paris - City of Light - Grades 6 - 12 Paris - La Ville Lumiere (En Francais) Rome - The Eternal City - Part 1 Rome - The Eternal City - Part 2 The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades Tokyo - City of Contrasts Washington, DC - Grades 6 - 12</p>