

Main Criteria: Colorado Academic Standards (CAS)
Secondary Criteria: Virtual Field Trips Subjects:
 Science, Social Studies
Grade: 8
Correlation Options: Show Correlated

Colorado Academic Standards (CAS)
Science
 Grade: 8 - Adopted: 2018

CONTENT AREA	SC.MS.1.	Physical Science
STANDARD	SC.MS.1 .1.	The fact that matter is composed of atoms and molecules can be used to explain the properties of substances, diversity of materials, states of matter and phases changes.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR SC.MS.1. 1.c. Gather and make sense of information to describe that synthetic materials come from natural resources and impact society. (MS-PS1-3)

Virtual Field Trips

Amazon Rainforest - People and Threats - Grades 6-8

CONTENT AREA	SC.MS.2.	Life Science
STANDARD	SC.MS.2 .2.	Organisms reproduce, either sexually or asexually, and transfer their genetic information to their offspring.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR SC.MS.2. 2.b. Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms. (MS-LS1-5)

Virtual Field Trips

Galapagos Islands

CONTENT AREA	SC.MS.2.	Life Science
STANDARD	SC.MS.2 .5.	Organisms and populations of organisms are dependent on their environmental interactions both with other living things and with nonliving.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SC.MS.2.5.b.	Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems. (MS-LS2-2)
Virtual Field Trips Amazon Rainforest - Grades 6-8 Amazon Rainforest - People and Threats - Grades 6-8 Canada: Coast to Coast Galapagos Islands National Parks - Alaska & Hawaii National Parks - Nevada, California		

CONTENT AREA	SC.MS.2.	Life Science
STANDARD	SC.MS.2.6.	Ecosystems are sustained by the continuous flow of energy, originating primarily from the sun, and the recycling of matter and nutrients within the system.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SC.MS.2.6.a.	Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem. (MS-LS2-3)
Virtual Field Trips Amazon Rainforest - Grades 6-8 Amazon Rainforest - People and Threats - Grades 6-8 Galapagos Islands		

CONTENT AREA	SC.MS.2.	Life Science
STANDARD	SC.MS.2.7.	Ecosystems are dynamic in nature; their characteristics can vary over time. Disruptions to any physical or biological component of an ecosystem.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SC.MS.2.7.a.	Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations. (MS-LS2-4)
Virtual Field Trips Amazon Rainforest - Grades 6-8 Amazon Rainforest - People and Threats - Grades 6-8 Canada: Coast to Coast Galapagos Islands National Parks - Alaska & Hawaii National Parks - Washington, Oregon, Idaho, Montana, Colorado		

INDICATOR	SC.MS.2.7.b.	Evaluate competing design solutions for maintaining biodiversity and ecosystem services. (MS-LS2-5)
		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

CONTENT AREA	SC.MS.2.	Life Science
STANDARD	SC.MS.2.12.	Biodiversity is the wide range of existing life forms that have adapted to the variety of conditions on Earth, from terrestrial to marine ecosystems.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SC.MS.2.12.a.	Evaluate competing design solutions for maintaining biodiversity and ecosystem services. (MS-LS2-5)
		Virtual Field Trips Amazon Rainforest - Grades 6-8 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

CONTENT AREA	SC.MS.3.	Earth and Space Science
STANDARD	SC.MS.3.4.	Energy flows and matter cycles within and among Earth's systems, including the sun and Earth's interior as primary energy sources. Plate tectonics is one result of these processes.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SC.MS.3.4.a.	Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process. (MS-ESS2-1)
		Virtual Field Trips Amazon Rainforest - People and Threats - Grades 6-8 Galapagos Islands

INDICATOR	SC.MS.3.4.b.	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales. (MS-ESS2-2)
		<u>Virtual Field Trips</u> National Parks - Alaska & Hawaii National Parks - Nevada, California National Parks - Washington, Oregon, Idaho, Montana, Colorado National Parks - Wyoming, Utah
CONTENT AREA	SC.MS.3.	Earth and Space Science
STANDARD	SC.MS.3.5.	Plate tectonics is the unifying theory that explains movements of rocks at Earth's surface and geological history.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SC.MS.3.5.a.	Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions. (MS-ESS2-3)
		<u>Virtual Field Trips</u> National Parks - Alaska & Hawaii National Parks - Wyoming, Utah

CONTENT AREA	SC.MS.3.	Earth and Space Science
STANDARD	SC.MS.3.6.	Water cycles among land, ocean, and atmosphere, and is propelled by sunlight and gravity. Density variations of sea water drive interconnected ocean currents. Water movement causes weathering and erosion, changing landscape features.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SC.MS.3.6.a.	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales. (MS-ESS2-2)
		<u>Virtual Field Trips</u> National Parks - Alaska & Hawaii National Parks - Nevada, California National Parks - Washington, Oregon, Idaho, Montana, Colorado National Parks - Wyoming, Utah

INDICATOR	SC.MS.3.6.c.	Collect data to provide evidence for how the motions and complex interactions of air masses result in changes in weather conditions. (MSESS2-5)
		<u>Virtual Field Trips</u> Canada: Coast to Coast

INDICATOR	SC.MS.3.6.d.	Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates. (MS-ESS2-6)
		<u>Virtual Field Trips</u> Galapagos Islands

CONTENT AREA	SC.MS.3.	Earth and Space Science
STANDARD	SC.MS.3.7.	Complex interactions determine local weather patterns and influence climate, including the role of the ocean.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR SC.MS.3.7.a. Collect data to provide evidence for how the motions and complex interactions of air masses result in changes in weather conditions. (MSESS2-5)

Virtual Field Trips
Canada: Coast to Coast

INDICATOR SC.MS.3.7.b. Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates. (MS-ESS2-6)

Virtual Field Trips
Galapagos Islands

CONTENT AREA	SC.MS.3.	Earth and Space Science
STANDARD	SC.MS.3.8.	Humans depend on Earth's land, ocean, atmosphere, and biosphere for different resources, many of which are limited or not renewable. Resources are distributed unevenly around the planet as a result of past geologic processes.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR SC.MS.3.8.a. Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes. (MS-ESS3-1)

Virtual Field Trips
Amazon Rainforest - People and Threats - Grades 6-8
Canada: Coast to Coast
Canada: Our Northern Neighbor
National Parks - Alaska & Hawaii
National Parks - Nevada, California

CONTENT AREA	SC.MS.3.	Earth and Space Science
STANDARD	SC.MS.3.10.	Human activities have altered the biosphere, sometimes damaging it, although changes to environments can have different impacts for different living things.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SC.MS.3.10.a.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment. (MS-ESS3-3)
		<u>Virtual Field Trips</u> 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

INDICATOR	SC.MS.3.10.b.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems. (MS-ESS3-4)
		<u>Virtual Field Trips</u> Amazon Rainforest - People and Threats - Grades 6-8

CONTENT AREA	SC.MS.3.	Earth and Space Science
STANDARD	SC.MS.3.11.	Human activities affect global warming. Decisions to reduce the impact of global warming depend on understanding climate science, engineering capabilities, and social dynamics.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SC.MS.3.11.a.	Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century. (MS-ESS3-5)
		<u>Virtual Field Trips</u> Canada: Coast to Coast National Parks - Washington, Oregon, Idaho, Montana, Colorado

Colorado Academic Standards (CAS)
Social Studies
 Grade: **8** - Adopted: **2022**

CONTENT AREA		Prepared Graduates in Social Studies
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STANDARD	1	Apply the process of inquiry to examine and analyze how historical knowledge is viewed, constructed, and interpreted.
		<u>Virtual Field Trips</u> Ancient Egypt - Land of the Pharaohs Ancient Egypt - Land of the Pyramids Ancient Greece Ancient Mayan Civilization Ancient Rome Canada: Coast to Coast Canada: Our Northern Neighbor Rome - The Eternal City

STANDARD	2	Analyze historical time periods and patterns of continuity and change, through multiple perspectives, within and among cultures and societies. Virtual Field Trips Ancient Egypt - Land of the Pharaohs Ancient Egypt - Land of the Pyramids Ancient Greece Ancient Mayan Civilization Ancient Rome Canada: Coast to Coast Canada: Our Northern Neighbor Rome - The Eternal City
STANDARD	3	Apply geographic representations and perspectives to analyze human movement, spatial patterns, systems, and the connections and relationships among them. Virtual Field Trips Amazon Rainforest - People and Threats - Grades 6-8 Canada: Coast to Coast Canada: Our Northern Neighbor Exploring Cuba London - City of Pomp & Majesty National Parks - Alaska & Hawaii National Parks - Nevada, California National Parks - Washington, Oregon, Idaho, Montana, Colorado National Parks - Wyoming, Utah Paris - City of Light - Grades Virtual Field Trips Tokyo - City of Contrasts
STANDARD	4	Examine the characteristics of places and regions, and the changing nature among geographic and human interactions. Virtual Field Trips Amazon Rainforest - Grades 6-8 Amazon Rainforest - People and Threats - Grades 6-8 Barcelona Canada: Coast to Coast Canada: Our Northern Neighbor Exploring Cuba London - City of Pomp & Majesty National Parks - Alaska & Hawaii National Parks - Nevada, California National Parks - Washington, Oregon, Idaho, Montana, Colorado National Parks - Wyoming, Utah Paris - City of Light - Grades Virtual Field Trips Tokyo - City of Contrasts
STANDARD	7	Analyze the origins, structures, and functions of governments to evaluate the impact on citizens and the global society. Virtual Field Trips Canada: Our Northern Neighbor

CONTENT AREA		Economics
STANDARD	SS.8.3.1.	Investigate how economic freedom, including free trade, was important for economic growth in early American history.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes

EVIDENCE OUTCOMES		Students Can:
INDICATOR	SS.8.3.1. a.	Give examples of regional, national, and international differences in resources, productivity, and costs that provide a basis for trade. Virtual Field Trips Exploring Cuba
INDICATOR	SS.8.3.1. c.	Explain the effects of domestic policies on international trade. Virtual Field Trips Exploring Cuba
INDICATOR	SS.8.3.1. d.	Explain why nations sometimes restrict trade by using quotas, tariffs, and nontariff barriers. Virtual Field Trips Exploring Cuba

CONTENT AREA		Civics
STANDARD	SS.8.4.1 .	Construct an understanding of the changing definition of citizenship and the expansion of rights of citizens in the United States.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:
INDICATOR	SS.8.4.1. a.	Describe major political and/or social changes that affected the definition of citizenship, expanded or restricted the rights of citizens, and how those changes impacted women, Indigenous Peoples, African Americans, Latinos, Asian Americans, LGBTQ, religious minorities, and people living in annexed territories. Virtual Field Trips Washington, DC - Grades Virtual Field Trips

INDICATOR	SS.8.4.1. d.	Evaluate the results of various strategies used to enact political change over time. Virtual Field Trips Washington, DC - Grades Virtual Field Trips
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CONTENT AREA		Civics
STANDARD	SS.8.4.2 .	Investigate and evaluate the purpose and place of rule of law in a constitutional system.
CONCEPTS AND SKILLS / EVIDENCE OUTCOMES		Evidence Outcomes
EVIDENCE OUTCOMES		Students Can:

INDICATOR	SS.8.4.2. c.	Apply knowledge about the three branches of government and how they interact with one another to historical and contemporary problems. Virtual Field Trips Washington, DC - Grades Virtual Field Trips
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