Main Criteria: Ohio Learning Standards
Secondary Criteria: Virtual Field Trips
Subjects: Science, Social Studies
Grade: 9
Correlation Options: Show Correlated

Ohio Learning Standards

Science

Grade: **9** - Adopted: **2011**

DOMAIN / ACADEMIC CONTENT STANDARD	**OH.B.**	**BIOLOGY: This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them.**
STANDARD / BENCHMARK	**B.2.**	**Evolution**
BENCHMARK / GRADE LEVEL INDICATOR	**B.2.1.**	**Mechanisms**
PROFICIENCY LEVEL	**B.2.1.2.**	**Mutation** **Virtual Field Trips** **Galapagos Islands - Espagnol**
PROFICIENCY LEVEL	**B.2.1.5.**	**Sexual selection** **Virtual Field Trips** **Galapagos Islands - Espagnol**
PROFICIENCY LEVEL	**B.2.1.6.**	**History of life on Earth** **Virtual Field Trips** **Galapagos Islands - Espagnol**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.B.**	**BIOLOGY: This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them.**
STANDARD / BENCHMARK	**B.2.**	**Evolution**
BENCHMARK / GRADE LEVEL INDICATOR	**B.2.2.**	**Diversity of Life**
PROFICIENCY LEVEL	**B.2.2.1.**	**Speciation and biological classification based on molecular evidence** **Virtual Field Trips** **Galapagos Islands - Espagnol**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.B.**	**BIOLOGY: This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them.**
STANDARD / BENCHMARK	**B.3.**	**Diversity and Interdependence of Life**
BENCHMARK / GRADE LEVEL INDICATOR	**B.3.1.**	**Classification systems are frameworks created by scientists for describing the vast diversity of organisms indicating the degree of relatedness between organisms.** **Virtual Field Trips** **Galapagos Islands - Espagnol**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.B.**	**BIOLOGY: This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through**

		inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them.
STANDARD / BENCHMARK	B.3.	Diversity and Interdependence of Life
BENCHMARK / GRADE LEVEL INDICATOR	B.3.2.	Ecosystems
PROFICIENCY LEVEL	B.3.2.1.	Homeostasis
INDICATOR	B.3.2.1.b.	Equilibrium and disequilibrium Virtual Field Trips 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
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.1.	Earth Systems: Interconnected Spheres of Earth
BENCHMARK / GRADE LEVEL INDICATOR	ES.1.1.	Biosphere
PROFICIENCY LEVEL	ES.1.1.1.	Evolution and adaptation in populations Virtual Field Trips 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
PROFICIENCY LEVEL	ES.1.1.2.	Biodiversity Virtual Field Trips Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks West - Nevada, California The Amazon Rainforest - Part 1 - Older Grades
PROFICIENCY LEVEL	ES.1.1.3.	Ecosystems (equilibrium, species interactions, stability) Virtual Field Trips 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
PROFICIENCY LEVEL	ES.1.1.4.	Population dynamics Virtual Field Trips Galapagos Islands - Espagnol
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.1.	Earth Systems: Interconnected Spheres of Earth

BENCHMARK / GRADE LEVEL INDICATOR	ES.1.3.	Lithosphere
PROFICIENCY LEVEL	ES.1.3.1.	Geologic events and processes Virtual Field Trips 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
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.1.	Earth Systems: Interconnected Spheres of Earth
BENCHMARK / GRADE LEVEL INDICATOR	ES.1.4.	Hydrosphere
PROFICIENCY LEVEL	ES.1.4.2.	Surface and ground water flow patterns and movement Virtual Field Trips 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
PROFICIENCY LEVEL	ES.1.4.3.	Cryosphere Virtual Field Trips National Parks - West - Alaska & Hawaii
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.1.	Earth Systems: Interconnected Spheres of Earth
BENCHMARK / GRADE LEVEL INDICATOR	ES.1.5.	Movement of matter and energy through the hydrosphere, lithosphere, atmosphere and biosphere
PROFICIENCY LEVEL	ES.1.5.2.	Biogeochemical cycles Virtual Field Trips La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
PROFICIENCY LEVEL	ES.1.5.3.	Ecosystems Virtual Field Trips Galapagos Islands - Espagnol
PROFICIENCY LEVEL	ES.1.5.4.	Climate and weather Virtual Field Trips La Selva Amazonica - Pte 1 (En Espagnol) National Parks West - Nevada, California The Amazon Rainforest - Part 1 - Older Grades
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.2.	Earth's Resources
BENCHMARK / GRADE LEVEL INDICATOR	ES.2.1.	Energy resources

PROFICIENCY LEVEL	ES.2.1.1.	Renewable and nonrenewable energy sources and efficiency Virtual Field Trips National Parks West - Nevada, California The Amazon Rainforest - Part 2 - Older Grades
PROFICIENCY LEVEL	ES.2.1.2.	Alternate energy sources and efficiency Virtual Field Trips The Amazon Rainforest - Part 2 - Older Grades
PROFICIENCY LEVEL	ES.2.1.3.	Resource availability Virtual Field Trips Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California The Amazon Rainforest - Part 2 - Older Grades
PROFICIENCY LEVEL	ES.2.1.4.	Mining and resource extraction Virtual Field Trips National Parks - West - Alaska & Hawaii
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.2.	Earth's Resources
BENCHMARK / GRADE LEVEL INDICATOR	ES.2.2.	Air and air pollution
PROFICIENCY LEVEL	ES.2.2.3.	Clean Air Act Virtual Field Trips The Amazon Rainforest - Part 2 - Older Grades
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.2.	Earth's Resources
BENCHMARK / GRADE LEVEL INDICATOR	ES.2.3.	Water and water pollution
PROFICIENCY LEVEL	ES.2.3.1.	Potable water and water quality Virtual Field Trips National Parks West - Nevada, California
PROFICIENCY LEVEL	ES.2.3.3.	Clean Water Act Virtual Field Trips The Amazon Rainforest - Part 2 - Older Grades
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.2.	Earth's Resources
BENCHMARK / GRADE LEVEL INDICATOR	ES.2.4.	Soil and land
PROFICIENCY LEVEL	ES.2.4.2.	Mass wasting and erosion Virtual Field Trips National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1

PROFICIENCY LEVEL	ES.2.4.4.	Land use and land management (including food production, agriculture and zoning) Virtual Field Trips The Amazon Rainforest - Part 2 - Older Grades
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.2.	Earth's Resources
BENCHMARK / GRADE LEVEL INDICATOR	ES.2.5.	Wildlife and wilderness
PROFICIENCY LEVEL	ES.2.5.1.	Wildlife and wilderness management Virtual Field Trips 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
PROFICIENCY LEVEL	ES.2.5.2.	Endangered species Virtual Field Trips Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
DOMAIN / ACADEMIC CONTENT STANDARD	OH.ES.	ENVIRONMENTAL SCIENCE: Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.
STANDARD / BENCHMARK	ES.3.	Global Environmental Problems and Issues
BENCHMARK / GRADE LEVEL INDICATOR	ES.3.2.	Potable water quality, use and availability Virtual Field Trips National Parks West - Nevada, California
BENCHMARK / GRADE LEVEL INDICATOR	ES.3.3.	Climate change Virtual Field Trips National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1
BENCHMARK / GRADE LEVEL INDICATOR	ES.3.4.	Sustainability Virtual Field Trips 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
BENCHMARK / GRADE LEVEL INDICATOR	ES.3.5.	Species depletion and extinction Virtual Field Trips Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades

BENCHMARK / GRADE LEVEL INDICATOR	ES.3.7.	Food production and availability Virtual Field Trips The Amazon Rainforest - Part 2 - Older Grades
BENCHMARK / GRADE LEVEL INDICATOR	ES.3.8.	Deforestation and loss of biodiversity Virtual Field Trips Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
DOMAIN / ACADEMIC CONTENT STANDARD	OH.PG.	PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.
STANDARD / BENCHMARK	PG.1.	Minerals
BENCHMARK / GRADE LEVEL INDICATOR	PG.1.1.	Atoms and elements Virtual Field Trips National Parks West - Wyoming, Utah
BENCHMARK / GRADE LEVEL INDICATOR	PG.1.2.	Chemical bonding (ionic, covalent, metallic) Virtual Field Trips National Parks West - Wyoming, Utah
BENCHMARK / GRADE LEVEL INDICATOR	PG.1.3.	Crystallinity (crystal structure) Virtual Field Trips National Parks West - Wyoming, Utah
BENCHMARK / GRADE LEVEL INDICATOR	PG.1.4.	Criteria of a mineral (crystalline solid, occurs in nature, inorganic, defined chemical composition) Virtual Field Trips National Parks West - Wyoming, Utah
BENCHMARK / GRADE LEVEL INDICATOR	PG.1.5.	Properties of minerals (hardness, luster, cleavage, streak, crystal shape. fluorescence, flammability, density/specific gravity, malleability) Virtual Field Trips National Parks West - Wyoming, Utah
DOMAIN / ACADEMIC CONTENT STANDARD	OH.PG.	PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.
STANDARD / BENCHMARK	PG.4.	Sedimentary Rocks
BENCHMARK / GRADE LEVEL INDICATOR	PG.4.1.	The ocean
PROFICIENCY LEVEL	PG.4.1.2.	Currents (deep and shallow, rip and longshore) Virtual Field Trips Galapagos Islands - Espagnol
PROFICIENCY LEVEL	PG.4.1.3.	Thermal energy and water density Virtual Field Trips Galapagos Islands - Espagnol
PROFICIENCY LEVEL	PG.4.1.5.	Ocean features (ridges, trenches, island systems, abyssal zone, shelves, slopes, reefs, island arcs) Virtual Field Trips Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii

DOMAIN / ACADEMIC CONTENT STANDARD	OH.PG.	PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.
STANDARD / BENCHMARK	PG.4.	Sedimentary Rocks
BENCHMARK / GRADE LEVEL INDICATOR	PG.4.4.	Streams (channels, streambeds, floodplains, cross-bedding, alluvial fans, deltas) Virtual Field Trips Galapagos Islands - Espagnol National Parks of the Western Region - Part 1
DOMAIN / ACADEMIC CONTENT STANDARD	OH.PG.	PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.
STANDARD / BENCHMARK	PG.6.	Plate Tectonics
BENCHMARK / GRADE LEVEL INDICATOR	PG.6.3.	Plate motion (Note: introduced in grade 8)
PROFICIENCY LEVEL	PG.6.3.1.	Causes and evidence of plate motion Virtual Field Trips 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
PROFICIENCY LEVEL	PG.6.3.2.	Measuring plate motion Virtual Field Trips Galapagos Islands - Espagnol
PROFICIENCY LEVEL	PG.6.3.3.	Characteristics of oceanic and continental plates Virtual Field Trips Galapagos Islands - Espagnol
PROFICIENCY LEVEL	PG.6.3.4.	Relationship of plate movement and geologic events and features Virtual Field Trips Galapagos Islands - Espagnol National Parks West - Nevada, California National Parks West - Wyoming, Utah
PROFICIENCY LEVEL	PG.6.3.5.	Mantle plumes Virtual Field Trips National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah
DOMAIN / ACADEMIC CONTENT STANDARD	OH.PG.	PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.
STANDARD / BENCHMARK	PG.7.	Earth's Resources
BENCHMARK / GRADE LEVEL INDICATOR	PG.7.1.	Energy resources
PROFICIENCY LEVEL	PG.7.1.1.	Renewable and nonrenewable energy sources and efficiency Virtual Field Trips National Parks West - Nevada, California The Amazon Rainforest - Part 2 - Older Grades
PROFICIENCY LEVEL	PG.7.1.2.	Alternate energy sources and efficiency Virtual Field Trips The Amazon Rainforest - Part 2 - Older Grades

PROFICIENCY LEVEL	PG.7.1.3.	Resource availability Virtual Field Trips Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California The Amazon Rainforest - Part 2 - Older Grades
PROFICIENCY LEVEL	PG.7.1.4.	Mining and resource extraction Virtual Field Trips National Parks - West - Alaska & Hawaii
DOMAIN / ACADEMIC CONTENT STANDARD	OH.PG.	PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.
STANDARD / BENCHMARK	PG.7.	Earth's Resources
BENCHMARK / GRADE LEVEL INDICATOR	PG.7.3.	Water
PROFICIENCY LEVEL	PG.7.3.1.	Potable water and water quality Virtual Field Trips National Parks West - Nevada, California
DOMAIN / ACADEMIC CONTENT STANDARD	OH.PG.	PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.
STANDARD / BENCHMARK	PG.7.	Earth's Resources
BENCHMARK / GRADE LEVEL INDICATOR	PG.7.4.	Soil and sediment
PROFICIENCY LEVEL	PG.7.4.2.	Mass wasting and erosion Virtual Field Trips National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
DOMAIN / ACADEMIC CONTENT STANDARD	OH.PG.	PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.
STANDARD / BENCHMARK	PG.8.	Glacial Geology
BENCHMARK / GRADE LEVEL INDICATOR	PG.8.1.	Glaciers and glaciation
PROFICIENCY LEVEL	PG.8.1.1.	Evidence of past glaciers (including features formed through erosion or deposition) Virtual Field Trips National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1
PROFICIENCY LEVEL	PG.8.1.2.	Glacial deposition and erosion (including features formed through erosion or deposition) Virtual Field Trips National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1
DOMAIN / ACADEMIC CONTENT STANDARD	OH.PG.	PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.
STANDARD / BENCHMARK	PG.8.	Glacial Geology
BENCHMARK / GRADE LEVEL INDICATOR	PG.8.1.	Glaciers and glaciation
PROFICIENCY LEVEL	PG.8.1.3.	Data from ice cores

INDICATOR	**PG.8.1.3.a.**	**Historical changes (glacial ages, amounts, locations, particulate matter, correlation to fossil evidence)** **Virtual Field Trips** **National Parks - West - Alaska & Hawaii** **National Parks of the Western Region - Part 1**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.PG.**	**PHYSICAL GEOLOGY: Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology.**
STANDARD / BENCHMARK	**PG.8.**	**Glacial Geology**
BENCHMARK / GRADE LEVEL INDICATOR	**PG.8.1.**	**Glaciers and glaciation**
PROFICIENCY LEVEL	**PG.8.1.4.**	**Glacial distribution and causes of glaciation** **Virtual Field Trips** **National Parks - West - Alaska & Hawaii** **National Parks of the Western Region - Part 1**
PROFICIENCY LEVEL	**PG.8.1.5.**	**Types of glaciers - continental (ice sheets, ice caps), alpine/valley (piedmont, valley, cirque, ice caps)** **Virtual Field Trips** **National Parks - West - Alaska & Hawaii** **National Parks of the Western Region - Part 1**
PROFICIENCY LEVEL	**PG.8.1.6.**	**Glacial structure, formation and movement** **Virtual Field Trips** **National Parks - West - Alaska & Hawaii** **National Parks of the Western Region - Part 1**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.PS.**	**PHYSICAL SCIENCE: Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy and motion. A unified understanding of phenomena in physical, living, Earth and space systems is the culmination of all previously learned concepts related to chemistry, physics, and Earth and space science, along with historical perspective and mathematical reasoning.**
STANDARD / BENCHMARK	**PS.3.**	**Forces and Motion**
BENCHMARK / GRADE LEVEL INDICATOR	**PS.3.1.**	**Motion**
PROFICIENCY LEVEL	**PS.3.1.2.**	**Displacement, velocity (constant, average and instantaneous) and acceleration** **Virtual Field Trips** **National Parks - West - Alaska & Hawaii**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.PS.**	**PHYSICAL SCIENCE: Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy and motion. A unified understanding of phenomena in physical, living, Earth and space systems is the culmination of all previously learned concepts related to chemistry, physics, and Earth and space science, along with historical perspective and mathematical reasoning.**
STANDARD / BENCHMARK	**PS.3.**	**Forces and Motion**
BENCHMARK / GRADE LEVEL INDICATOR	**PS.3.2.**	**Forces**
PROFICIENCY LEVEL	**PS.3.2.2.**	**Types of forces (gravity, friction, normal, tension)**

		Virtual Field Trips **National Parks West - Wyoming, Utah**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.P.**	**PHYSICS: Physics elaborates on the study of the key concepts of motion, forces and energy as they relate to increasingly complex systems and applications that will provide a foundation for further study in science and scientific literacy.**
STANDARD / BENCHMARK	**P.1.**	**Motion**
BENCHMARK / GRADE LEVEL INDICATOR	**P.1.2.**	**Problem solving**
PROFICIENCY LEVEL	**P.1.2.2.**	**Uniform acceleration including free fall (initial velocity, final velocity, time, displacement, acceleration, average velocity)** **Virtual Field Trips** **National Parks - West - Alaska & Hawaii**

Ohio Learning Standards

Social Studies

Grade: **9** - Adopted: **2010**

DOMAIN / ACADEMIC CONTENT STANDARD	**OH.HS.AH.**	**American History: This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.**
STANDARD / BENCHMARK		**Social Transformations in the United States (1945-1994): A period of post-war prosperity allowed the United States to undergo fundamental social change. Adding to this change was an emphasis on scientific inquiry, the shift from an industrial to a technological/service economy, the impact of mass media, the phenomenon of suburban and Sun Belt migrations, and the expansion of civil rights.**
BENCHMARK / GRADE LEVEL INDICATOR	**HS.AH.28.**	**Following World War II, the United States experienced a struggle for racial and gender equality and the extension of civil rights.**
PROFICIENCY LEVEL	**HS.AH.28.1.**	**Summarize the struggle for racial and gender equality and the extension of civil rights that occurred in the United States in the postwar period.** **Virtual Field Trips** **Washington, DC - Grades 6 - 12**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.HS.WG.**	**World Geography: This course builds on students' understanding of geography and spatial thinking. Contemporary issues are explored through the lens of geography. In addition to understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements.**
STANDARD / BENCHMARK		**Environment and Society: Humans adapt to and modify the environment and shape the landscape through their interaction with the land. This has both positive and negative effects on the environment.**
BENCHMARK / GRADE LEVEL INDICATOR	**HS.WG.7.**	**Human interaction with the environment is affected by cultural characteristics and technological resources (e.g., plowing with oxen or with tractors, development of water resources for industry or recreation, resource conservation or development).**
PROFICIENCY LEVEL	**HS.WG.7.1.**	**Explain and provide examples of how cultural characteristics and technological resources influence human interaction with the**

		environment. **<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**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.HS.WG.**	**World Geography: This course builds on students' understanding of geography and spatial thinking. Contemporary issues are explored through the lens of geography. In addition to understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements.**
STANDARD / BENCHMARK		**Region: A region is an area on the earth's surface that is defined by certain unifying characteristics, which give it a measure of homogeneity and distinguish it from surrounding areas. The unifying characteristics may be physical or cultural. Regions change over time.**
BENCHMARK / GRADE LEVEL INDICATOR	**HS.WG.11.**	**Criteria are used to organize regions and as the criteria change, the identified regions change (e.g., types of economic activities, ethnic groups, natural vegetation).**
PROFICIENCY LEVEL	**HS.WG.11.1.**	**Examine various regions to categorize the types of regions and ascertain the criteria used to determine the regions.** **<u>Virtual Field Trips</u>** **The Amazon Rainforest - Part 2 - Older Grades**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.HS.WG.**	**World Geography: This course builds on students' understanding of geography and spatial thinking. Contemporary issues are explored through the lens of geography. In addition to understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements.**
STANDARD / BENCHMARK		**Region: A region is an area on the earth's surface that is defined by certain unifying characteristics, which give it a measure of homogeneity and distinguish it from surrounding areas. The unifying characteristics may be physical or cultural. Regions change over time.**
BENCHMARK / GRADE LEVEL INDICATOR	**HS.WG.13.**	**There are interconnections within and among physical and human regions (e.g., river systems, transportation linkages, common currency).**
PROFICIENCY LEVEL	**HS.WG.13.1.**	**Given a region, determine what interconnections exist and how they enable the region to interact within its own confines and with other regions.** **<u>Virtual Field Trips</u>** **The Amazon Rainforest - Part 2 - Older Grades**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.HS.WG.**	**World Geography: This course builds on students' understanding of geography and spatial thinking. Contemporary issues are explored through the lens of geography. In addition to understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements.**
STANDARD / BENCHMARK		**Region: A region is an area on the earth's surface that is defined by certain unifying characteristics, which give it a measure of homogeneity and distinguish it from surrounding areas. The unifying characteristics may be physical or cultural. Regions change over time.**
BENCHMARK / GRADE LEVEL INDICATOR	**HS.WG.14.**	**Regions are used as a basis to analyze global geographic issues (e.g., desertification, political disputes, economic unions).**
PROFICIENCY LEVEL	**HS.WG.14.1.**	**Use regions to analyze a geographic issue.**

		Virtual Field Trips **The Amazon Rainforest - Part 2 - Older Grades**
DOMAIN / ACADEMIC CONTENT STANDARD	**OH.HS.WG.**	**World Geography: This course builds on students' understanding of geography and spatial thinking. Contemporary issues are explored through the lens of geography. In addition to understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements.**
STANDARD / BENCHMARK		**Globalization: The modern world is said to be "shrinking" or "flattening" through the processes of globalization. The scale and speed of global interactions continue to increase in fields such as technology, markets, information sharing and telecommunication. Globalization has impacted human-environmental interactions, has affected the movement of people, products and ideas, and has implications for what constitutes a region and connections among existing regions.**
BENCHMARK / GRADE LEVEL INDICATOR	**HS.WG.17.**	**Globalization has shaped new cultural, economic and political ideas and entities (e.g., universal human rights, European Union, terrorist networks).**
PROFICIENCY LEVEL	**HS.WG.17.1.**	**Describe the impact of globalization on cultural, economic and political ideas and entities.** **Virtual Field Trips** **The Amazon Rainforest - Part 2 - Older Grades**