

Main Criteria: West Virginia Content Standards and Objectives

Secondary Criteria: Virtual Field Trips

Subjects: Science, Social Studies

Grade: 9

Correlation Options: Show Correlated

West Virginia Content Standards and Objectives

Science

Grade: 9 - Adopted: 2016

CONTENT STANDARD / COURSE	WV.S.HS.ETS.	Engineering, Technology, and Applications of Science
CONTENT STANDARD / OBJECTIVE		Engineering Design
OBJECTIVE / EXPECTATION	S.HS.ETS.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
CONTENT STANDARD / COURSE	WV.S.9.	Earth and Space Science
CONTENT STANDARD / OBJECTIVE	S.9.ESS.	Earth and Space Science Content
OBJECTIVE / EXPECTATION		History of Earth
GRADE LEVEL EXPECTATION	S.9.ESS.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
GRADE LEVEL EXPECTATION	S.9.ESS.7.	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
CONTENT STANDARD / COURSE	WV.S.9.	Earth and Space Science
CONTENT STANDARD / OBJECTIVE	S.9.ESS.	Earth and Space Science Content
OBJECTIVE / EXPECTATION		Earth's Systems
GRADE LEVEL EXPECTATION	S.9.ESS.8.	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

GRADE LEVEL EXPECTATION	S.9.ESS.10.	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
GRADE LEVEL EXPECTATION	S.9.ESS.11.	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 / COURSE	WV.S.9.	Earth and Space Science
CONTENT STANDARD / OBJECTIVE	S.9.ESS.	Earth and Space Science Content
OBJECTIVE / EXPECTATION		Weather and Climate
GRADE LEVEL EXPECTATION	S.9.ESS.13.	Use a model to describe how variations in the flow of energy into and out of Earth systems result in changes in climate. <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
GRADE LEVEL EXPECTATION	S.9.ESS.14.	Analyze geoscience data and the results from the 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
CONTENT STANDARD / COURSE	WV.S.9.	Earth and Space Science
CONTENT STANDARD / OBJECTIVE	S.9.ESS.	Earth and Space Science Content
OBJECTIVE / EXPECTATION		Human Sustainability
GRADE LEVEL EXPECTATION	S.9.ESS.15.	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 The Amazon Rainforest - Part 2 - Older Grades
GRADE LEVEL EXPECTATION	S.9.ESS.16.	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
GRADE LEVEL EXPECTATION	S.9.ESS.17.	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
GRADE LEVEL EXPECTATION	S.9.ESS.18.	Evaluate or refine a technological solution that reduces impacts of human activities on natural systems. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol
GRADE LEVEL EXPECTATION	S.9.ESS.19.	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
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.1.	Compare and contrast the rate elements cycle through the ecosphere, describing natural and human influences on reaction rates:
GRADE LEVEL EXPECTATION	S.HS.ENV.1.4.	Oxygen <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
GRADE LEVEL EXPECTATION	S.HS.ENV.1.5.	Sulfur <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.2.	Explain how the chemical components of biological and physical processes fit in the overall process of biogeochemical cycling such as photosynthesis, respiration, nitrogen fixation, or decomposition. <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
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.4.	Evaluate environmental and economic advantages and disadvantages of using nonrenewable and renewable energy. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content

OBJECTIVE / EXPECTATION	S.HS.ENV.6.	Explain how technology has influenced the sustainability of natural resources over time:
GRADE LEVEL EXPECTATION	S.HS.ENV.6.1.	Forestry practices <u>Virtual Field Trips</u> National Parks West - Nevada, California The Amazon Rainforest - Part 2 - Older Grades
GRADE LEVEL EXPECTATION	S.HS.ENV.6.3.	Farming <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.7.	Relate logistic, exponential, and irruptive population growth to population dynamics including:
GRADE LEVEL EXPECTATION	S.HS.ENV.7.2.	Predator/prey relationships <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.8.	Create food web diagrams to explain how adding and/or removing a species from an ecosystem may affect other organisms and the entire ecosystem. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.9.	Evaluate the leading causes of species decline and premature extinction:
GRADE LEVEL EXPECTATION	S.HS.ENV.9.1.	Habitat destruction and degradation <u>Virtual Field Trips</u> Galapagos Islands - Espagnol The Amazon Rainforest - Part 2 - Older Grades
GRADE LEVEL EXPECTATION	S.HS.ENV.9.4.	Human population growth <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
GRADE LEVEL EXPECTATION	S.HS.ENV.9.5.	Over exploitation <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.10.	Analyze biological diversity as it relates to the stability of an ecosystem. <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 / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.11.	Relate habitat changes to plant and animal populations and climate influences:
GRADE LEVEL EXPECTATION	S.HS.ENV.11.1.	Variations in habitat size <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
GRADE LEVEL EXPECTATION	S.HS.ENV.11.2.	Fragmentation <u>Virtual Field Trips</u> Galapagos Islands - Espagnol The Amazon Rainforest - Part 2 - Older Grades
GRADE LEVEL EXPECTATION	S.HS.ENV.11.3.	Fluctuation in conditions of abiotic factors <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
GRADE LEVEL EXPECTATION	S.HS.ENV.11.4.	Albedo <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
GRADE LEVEL EXPECTATION	S.HS.ENV.11.5.	Surface temperature <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.12.	Compare and contrast legislation and international agreements associated with protecting habitats, ecosystems, and species:
GRADE LEVEL EXPECTATION	S.HS.ENV.12.1.	Superfund <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 2 - Older Grades
GRADE LEVEL EXPECTATION	S.HS.ENV.12.3.	Wilderness Act <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 2 - Older Grades

GRADE LEVEL EXPECTATION	S.HS.ENV.12.4.	Endangered Species Act <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 2 - Older Grades
GRADE LEVEL EXPECTATION	S.HS.ENV.12.5.	Marine Mammals Act <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.17.	Debate climate change as it relates to natural forces, greenhouse gases, and human changes in atmospheric concentrations of greenhouse gases, and relevant laws and treaties. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1
OBJECTIVE / EXPECTATION	S.HS.ENV.18.	Identify sources, uses, quality, conservation, and global distribution of water. <u>Virtual Field Trips</u> National Parks West - Nevada, California
OBJECTIVE / EXPECTATION	S.HS.ENV.19.	Create models to show surface and groundwater flow in a local drainage and explain how surface and ground water are related. <u>Virtual Field Trips</u> National Parks of the Western Region - Part 1
OBJECTIVE / EXPECTATION	S.HS.ENV.21.	Use GIS data to analyze the parameters of a watershed and interpret physical, chemical and biological data as a means of assessing environmental quality. <u>Virtual Field Trips</u> National Parks of the Western Region - Part 1
CONTENT STANDARD / COURSE	WV.S.HS.ENV.	Environmental Science
CONTENT STANDARD / OBJECTIVE	S.HS.ENV.	Environmental Science Content
OBJECTIVE / EXPECTATION	S.HS.ENV.26.	Research and describe how communities have restored or protected ecosystems:
GRADE LEVEL EXPECTATION	S.HS.ENV.26.1.	Remediation <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
GRADE LEVEL EXPECTATION	S.HS.ENV.26.2.	Mitigation <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
GRADE LEVEL EXPECTATION	S.HS.ENV.26.3.	Rehabilitation <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
GRADE LEVEL EXPECTATION	S.HS.ENV.26.4.	Reclamation <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
GRADE LEVEL EXPECTATION	S.HS.ENV.26.5.	Preservation <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

West Virginia Content Standards and Objectives

Social Studies

Grade: 9 - Adopted: 2016

CONTENT STANDARD / COURSE	WV.SS.US.	United States Studies
CONTENT STANDARD / OBJECTIVE	SS.US.G.	Geography
OBJECTIVE / EXPECTATION	SS.US.11.	Apply correct vocabulary and geographic tools to determine and illustrate geographic concepts (e.g., major meridians of longitude and parallels of latitude, physical features, landforms, bodies of water, climatic regions, states and their capitals and relative and exact location). <u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 Washington, DC - Grades 6 - 12
CONTENT STANDARD / COURSE	WV.SS.USC.	United States Studies – Comprehensive
CONTENT STANDARD / OBJECTIVE	SS.USC.G.	Geography
OBJECTIVE / EXPECTATION	SS.USC.14.	Apply correct vocabulary and geographic tools to determine and illustrate geographic concepts (e.g., major meridians of longitude and parallels of latitude, physical features, landforms, bodies of water, climatic regions, states and their capitals, and relative and

		exact location). <u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 Washington, DC - Grades 6 - 12
OBJECTIVE / EXPECTATION	SS.USC.17.	Analyze the characteristics of cultural contributions of Native Americans, African Americans, Hispanics and all immigrants (e.g., Germans, Italians, Irish, etc.). <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 / COURSE	WV.SS.USC.	United States Studies – Comprehensive
CONTENT STANDARD / OBJECTIVE	SS.USC.H.	History
OBJECTIVE / EXPECTATION	SS.USC.29.	Demonstrate an understanding of the social and political conflicts that brought forth an era of change in America.
GRADE LEVEL EXPECTATION	SS.USC.29.a.	Investigate key people, places, and events of the African-American Civil Rights Movement. <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12
CONTENT STANDARD / COURSE	WV.SS.S.	Sociology
CONTENT STANDARD / OBJECTIVE	SS.S.	Sociology
OBJECTIVE / EXPECTATION	SS.S.8.	Identify the basic components of culture and evaluate the importance of culture in society. <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