

Main Criteria: New Mexico Content Standards

Secondary Criteria: Virtual Field Trips

Subjects: Science, Social Studies

Grade: 9

Correlation Options: Show Correlated

New Mexico Content Standards

Science

Grade: 9 - Adopted: 2003

STRAND / CONTENT STANDARD	NM.I.	Scientific Thinking and Practice: Understand the processes of scientific investigations and use inquiry and scientific ways of observing, experimenting, predicting, and validating to think critically.
BENCHMARK / STANDARD	I-B.	Understand that scientific processes produce scientific knowledge that is continually evaluated, validated, revised, or rejected.
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	I-B.3a.	Understand how new data and observations can result in new scientific knowledge. <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
STRAND / CONTENT STANDARD	NM.II.	The Content of Science: Life Science: Understand the properties, structures, and processes of living things and the interdependence of living things and their environments.
BENCHMARK / STANDARD	II-A.	Understand how the survival of species depends on biodiversity and on complex interactions, including the cycling of matter and the flow of energy.
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-A.1a.	Ecosystems: Know that an ecosystem is complex and may exhibit fluctuations around a steady state or may evolve over time. <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
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-A.2a.	Ecosystems: Describe how organisms cooperate and compete in ecosystems (e.g., producers, decomposers, herbivores, carnivores, omnivores, predator-prey, symbiosis, mutualism). <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
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-A.3a.	Ecosystems: Understand and describe how available resources limit the amount of life an ecosystem can support (e.g., energy, water, oxygen, nutrients). <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks West - Nevada, California The Amazon Rainforest - Part 2 - Older Grades

PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-A.4a.	<p>Ecosystems: Critically analyze how humans modify and change ecosystems (e.g., harvesting, pollution, population growth, technology).</p> <p><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</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-A.5a.	<p>Energy Flow in the Environment: Explain how matter and energy flow through biological systems (e.g., organisms, communities, ecosystems), and how the total amount of matter and energy is conserved but some energy is always released as heat to the environment.</p> <p><u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-A.9a.	<p>Biodiversity: Understand variation within and among species, including: mutations and genetic drift; factors affecting the survival of an organism; natural selection.</p> <p><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</p>
STRAND / CONTENT STANDARD	NM.II.	The Content of Science: Life Science: Understand the properties, structures, and processes of living things and the interdependence of living things and their environments.
BENCHMARK / STANDARD	II-B.	Understand the genetic basis for inheritance and the basic concepts of biological evolution.
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.8a.	<p>Biological Evolution: Describe the evidence for the first appearance of life on Earth as one-celled organisms, over 3.5 billion years ago, and for the later appearance of a diversity of multicellular organisms over millions of years.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.9a.	<p>Biological Evolution: Critically analyze the data and observations supporting the conclusion that the species living on Earth today are related by descent from the ancestral one-celled organisms.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.10a.	<p>Biological Evolution: Understand the data, observations, and logic supporting the conclusion that species today evolved from earlier, distinctly different species, originating from the ancestral one-celled organisms.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol</p>

PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.11a.	<p>Biological Evolution: Understand that evolution is a consequence of many factors, including the ability of organisms to reproduce, genetic variability, the effect of limited resources, and natural selection.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol</p>
STRAND / CONTENT STANDARD	NM.II.	The Content of Science: Earth and Space Science: Understand the structure of Earth, the solar system, and the universe, the interconnections among them, and the processes and interactions of Earth's systems.
BENCHMARK / STANDARD	II-B.	Examine the scientific theories of the origin, structure, energy, and evolution of Earth and its atmosphere, and their interconnections.
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.1a.	<p>Characteristics and Evolution of Earth: Describe the characteristics and the evolution of Earth in terms of the geosphere, the hydrosphere, the atmosphere, and the biosphere.</p> <p><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</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.3a.	<p>Characteristics and Evolution of Earth: Describe the internal structure of Earth (e.g., core, mantle, crust) and the structure of Earth's plates.</p> <p><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</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.4a.	<p>Characteristics and Evolution of Earth: Understand the changes in Earth's past and the investigative methods used to determine geologic time, including: rock sequences, relative dating, fossil correlation, and radiometric dating; geologic time scales, historic changes in life forms, and the evidence for absolute ages (e.g., radiometric methods, tree rings, paleomagnetism).</p> <p><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</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.5a.	<p>Characteristics and Evolution of Earth: Explain plate tectonic theory and understand the evidence that supports it.</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.7a.	<p>Energy in Earth's System: Describe convection as the mechanism for moving heat energy from deep within Earth to the surface and discuss how this process results in plate tectonics, including: geological manifestations (e.g., earthquakes, volcanoes, mountain building) that occur at plate boundaries; impact of plate motions on societies and the environment (e.g., earthquakes, volcanoes).</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks West - Wyoming, Utah</p>

PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.8a.	<p>Energy in Earth's System: Describe the patterns and relationships in the circulation of air and water driven by the sun's radiant energy, including: patterns in weather systems related to the transfer of energy; differences between climate and weather; global climate, global warming, and the greenhouse effect; El Nino, La Nina, and other climatic trends.</p> <p><u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Nevada, California</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.9a.	<p>Geochemical Cycles: Know that Earth's system contains a fixed amount of natural resources that cycle among land, water, the atmosphere, and living things (e.g., carbon and nitrogen cycles, rock cycle, water cycle, ground water, aquifers).</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	II-B.10a.	<p>Geochemical Cycles: Describe the composition and structure of Earth's materials, including: the major rock types (i.e., sedimentary, igneous, metamorphic) and their formation; natural resources (e.g., minerals, petroleum) and their formation.</p> <p><u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah The Amazon Rainforest - Part 2 - Older Grades</p>
STRAND / CONTENT STANDARD	NM.III.	Science and Society: Understand how scientific discoveries, inventions, practices, and knowledge influence, and are influenced by, individuals and societies.
BENCHMARK / STANDARD	III-A.	Examine and analyze how scientific discoveries and their applications affect the world, and explain how societies influence scientific investigations and applications.
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.1a.	<p>Science and Technology: Know how science enables technology but also constrains it, and recognize the difference between real technology and science fiction (e.g., rockets vs. antigravity machines; nuclear reactors vs. perpetual-motion machines; medical X-rays vs. Star-Trek tricorders).</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.2a.	<p>Science and Technology: Understand how advances in technology enable further advances in science (e.g., microscopes and cellular structure; telescopes and understanding of the universe).</p> <p><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</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.3a.	<p>Science and Technology: Evaluate the influences of technology on society (e.g., communications, petroleum, transportation, nuclear energy, computers, medicine, genetic engineering) including both desired and undesired effects, and including some historical examples (e.g., the wheel, the plow, the printing press, the lightning rod).</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.9a.	Science and Society: Describe how scientific knowledge helps decision makers with local, national, and global challenges (e.g., Waste Isolation Pilot Project [WIPP], mining, drought, population

		<p>growth, alternative energy, climate change).</p> <p><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</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.10a.	<p>Science and Society: Describe major historical changes in scientific perspectives (e.g., atomic theory, germs, cosmology, relativity, plate tectonics, evolution) and the experimental observations that triggered them.</p> <p><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</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.11a.	<p>Science and Society: Know that societal factors can promote or constrain scientific discovery (e.g., government funding, laws and regulations about human cloning and genetically modified organisms, gender and ethnic bias, AIDS research, alternative-energy research).</p> <p><u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.12a.	<p>Science and Society: Explain how societies can change ecosystems and how these changes can be reversible or irreversible.</p> <p><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</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.13a.	<p>Science and Society: Describe how environmental, economic, and political interests impact resource management and use in New Mexico.</p> <p><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</p>
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.18a.	<p>Science and Individuals: Understand that scientists have characteristics in common with other individuals (e.g., employment and career needs, curiosity, desire to perform public service, greed, preconceptions and biases, temptation to be unethical, core values including honesty and openness).</p> <p><u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol)</p>

		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
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	III-A.19a.	Science and Individuals: Know that science plays a role in many different kinds of careers and activities (e.g., public service, volunteers, public office holders, researchers, teachers, doctors, nurses, technicians, farmers, ranchers). <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades

New Mexico Content Standards

Social Studies

Grade: 9 - Adopted: 2009

STRAND / CONTENT STANDARD	NM.I:	History: Students are able to identify important people and events in order to analyze significant patterns, relationships, themes, ideas, beliefs, and turning points in New Mexico, United States, and world history in order to understand the complexity of the human experience. Students will:
BENCHMARK / STANDARD	1-B:	United States: analyze and evaluate the impact of major eras, events and individuals in United States history since the civil war and reconstruction:
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	1-B:2.	Analyze the transformation of the American economy and the changing social and political conditions in the United States in response to the industrial revolution, including:
PERFORMANCE STANDARD / INDICATOR	1-B:2.g.	Conservation of natural resources (e.g., the Grand Canyon, Yellowstone, Anasazi ruins at Mesa Verde, Colorado, National Reclamation Act of 1902); <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 / CONTENT STANDARD	NM.I:	History: Students are able to identify important people and events in order to analyze significant patterns, relationships, themes, ideas, beliefs, and turning points in New Mexico, United States, and world history in order to understand the complexity of the human experience. Students will:
BENCHMARK / STANDARD	1-D:	Skills: use critical thinking skills to understand and communicate perspectives of individuals, groups and societies from multiple contexts:
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	1-D:6.	Interpret events and issues based upon the historical, economic, political, social and geographic context of the participants; <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12
STRAND / CONTENT STANDARD	NM.II:	Geography: Students understand how physical, natural, and cultural processes influence where people live, the ways in which people live, and how societies interact with one another and their environments. Students will:
BENCHMARK / STANDARD	2-B:	Analyze natural and man-made characteristics of worldwide locales; describe regions, their interrelationships and patterns of change:
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	2-B:2.	Analyze how the character and meaning of a place is related to its economic, social and cultural characteristics, and why diverse groups in society view places and regions differently;

		<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
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	2-B:4.	Analyze and evaluate why places and regions are important to human identity (e.g., sacred tribal grounds, culturally unified neighborhoods). <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
STRAND / CONTENT STANDARD	NM.II:	Geography: Students understand how physical, natural, and cultural processes influence where people live, the ways in which people live, and how societies interact with one another and their environments. Students will:
BENCHMARK / STANDARD	I2-C:	Analyze the impact of people, places and natural environments upon the past and present in terms of our ability to plan for the future:
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	I2-C:1.	Analyze the fundamental role that geography has played in human history (e.g., the Russian winter on the defeat of Napoleon's army and the same effect in World War II); <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
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	I2-C:3.	Analyze the role that spatial relationships have played in effecting historic events; and <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 / CONTENT STANDARD	NM.II:	Geography: Students understand how physical, natural, and cultural processes influence where people live, the ways in which people live, and how societies interact with one another and their environments. Students will:
BENCHMARK / STANDARD	2-D:	Analyze how physical processes shape the earth's surface patterns and biosystems:
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	2-D:2.	Analyze the importance of ecosystems in understanding environments; <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 / CONTENT STANDARD	NM.II:	Geography: Students understand how physical, natural, and cultural processes influence where people live, the ways in which people live, and how societies interact with one another and their environments. Students will:
BENCHMARK / STANDARD	2-E:	Analyze and evaluate how economic, political, cultural and social processes interact to shape patterns of human populations and their interdependence, cooperation and conflict:
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	2-E:2.	Analyze the effects of geographic factors on major events in United States and world history; <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
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	2-E:3.	Analyze the interrelationships among settlement, migration, population-distribution patterns, land forms and climates in developing and developed countries; <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
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	2-E:5.	Analyze how cultures shape characteristics of a region; <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 / CONTENT STANDARD	NM.III:	Civics and Government: Students understand the ideals, rights, and responsibilities of citizenship and understand the content and history of the founding documents of the United States with particular emphasis on the United States and New Mexico constitutions and how governments function at local, state, tribal, and national levels. Students will:
BENCHMARK / STANDARD	3-A:	Compare and analyze the structure, power and purpose of government at the local, state, tribal and national levels as set forth in their respective constitutions or governance documents:
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	3-A:1.	Analyze the structure, powers and role of the legislative branch of the United States government, to include: specific powers delegated in Article I of the constitution; checks and balances described in the federalist papers, Number 51; lawmaking process; role of leadership within congress; federalist and antifederalist positions; <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12
STRAND / CONTENT STANDARD	NM.III:	Civics and Government: Students understand the ideals, rights, and responsibilities of citizenship and understand the content and history of the founding documents of the United States with particular emphasis on the United States and New Mexico constitutions and how governments function at local, state, tribal, and national levels. Students will:
BENCHMARK / STANDARD	3-B:	Analyze how the symbols, icons, songs, traditions and leaders of New Mexico and the United States exemplify ideals and provide continuity and a sense of unity:
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	3-B:3.	Analyze the contributions of symbols, songs and traditions toward promoting a sense of unity at the state and national levels; and <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12
PERFORMANCE STANDARD / BENCHMARK / PROFICIENCY	3-B:4.	Evaluate the role of New Mexico and United States symbols, icons, songs and traditions in providing continuity over time. <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12