

**Main Criteria:** Alabama Courses of Study  
**Secondary Criteria:** Social Studies Online  
**Subjects:** Science, Social Studies  
**Grade:** 4  
**Correlation Options:** Show Correlated

**Alabama Courses of Study**  
**Science**  
Grade: 4 - Adopted: 2015

STRAND / DOMAIN	AL.4.PS.	PHYSICAL SCIENCE
OBJECTIVE / CATEGORY		Energy

STANDARD 4.PS.5. Compile information to describe how the use of energy derived from natural renewable and nonrenewable resources affects the environment (e.g., constructing dams to harness energy from water, a renewable resource, while causing a loss of animal habitats; burning of fossil fuels, a nonrenewable resource, while causing an increase in air pollution; installing solar panels to harness energy from the sun, a renewable resource, while requiring specialized materials that necessitate mining).

**Social Studies Online**

Amazon Rainforest - People and Threats - Grades 2-5

Grade 3 - Geography of Our Communities

Grade 4 - Southwest Region Today

STRAND / DOMAIN	AL.4.PS.	PHYSICAL SCIENCE
OBJECTIVE / CATEGORY		Waves and Their Applications in Technologies for Information Transfer

STANDARD 4.PS.7. Develop and use models to show multiple solutions in which patterns are used to transfer information (e.g., using a grid of 1s and 0s representing black and white to send information about a picture, using drums to send coded information through sound waves, using Morse code to send a message).

**Social Studies Online**

Grade 3 - Geography of Our Communities

STRAND / DOMAIN	AL.4.LS.	LIFE SCIENCE
OBJECTIVE / CATEGORY		From Molecules to Organisms: Structures and Processes

STANDARD 4.LS.9. Examine evidence to support an argument that the internal and external structures of plants (e.g., thorns, leaves, stems, roots, colored petals, xylem, phloem) and animals (e.g., heart, stomach, lung, brain, skin) function to support survival, growth, behavior, and reproduction.

**Social Studies Online**

African Safari

Amazon Rainforest - Grades 2-5

Canada: Coast to Coast

Galapagos Islands

Grade 4 - Southwest Region Early Beginnings

Grade 4 - West Region Geography

How Coral Reefs Are Formed

The Sahara Desert

Who Lives On a Coral Reef?

STANDARD	4.LS.11.	Investigate different ways animals receive information through the senses, process that information, and respond to it in different ways (e.g., skunks lifting tails and spraying an odor when threatened, dogs moving ears when reacting to sound, snakes coiling or striking when sensing vibrations).
		<a href="#">Social Studies Online</a> <a href="#">Grade 4 - West Region Geography</a> <a href="#">Who Lives On a Coral Reef?</a>

STRAND / DOMAIN	AL.4.ESS	EARTH AND SPACE SCIENCE
OBJECTIVE / CATEGORY		Earth's Systems

STANDARD	4.ESS.14	Explore information to support the claim that landforms are the result of a combination of constructive forces, including crustal deformation, volcanic eruptions, and sediment deposition as well as a result of destructive forces, including erosion and weathering.
		<a href="#">Social Studies Online</a> <a href="#">Galapagos Islands</a> <a href="#">Grade 3 - Geography of Our Communities</a> <a href="#">Grade 4 - Midwest Region Today</a> <a href="#">Grade 4 - Southwest Region Early Beginnings</a> <a href="#">Grade 4 - West Region Landforms</a> <a href="#">National Parks - Alaska &amp; Hawaii</a> <a href="#">National Parks - Washington, Oregon, Idaho, Montana, Colorado</a> <a href="#">National Parks - Wyoming, Utah</a>

STANDARD	4.ESS.15	Analyze and interpret data (e.g., angle of slope in downhill movement of water, volume of water flow, cycles of freezing and thawing of water, cycles of heating and cooling of water, speed of wind, relative rate of soil deposition, amount of vegetation) to determine effects of weathering and rate of erosion by water, ice, wind, and vegetation using one single form of weathering or erosion at a time.
		<a href="#">Social Studies Online</a> <a href="#">Grade 3 - Geography of Our Communities</a> <a href="#">Grade 4 - Midwest Region Today</a> <a href="#">Grade 4 - Southwest Region Early Beginnings</a> <a href="#">National Parks - Alaska &amp; Hawaii</a> <a href="#">National Parks - Washington, Oregon, Idaho, Montana, Colorado</a> <a href="#">National Parks - Wyoming, Utah</a>

STANDARD	4.ESS.17	Formulate and evaluate solutions to limit the effects of natural Earth processes on humans (e.g., designing earthquake, tornado, or hurricane-resistant buildings; improving monitoring of volcanic activity).
		<a href="#">Social Studies Online</a> <a href="#">Grade 3 - Geography of Our Communities</a>