

**Main Criteria:** Tennessee Academic Standards

**Secondary Criteria:** Virtual Field Trips

**Subjects:** Science, Social Studies

**Grade:** 5

**Correlation Options:** Show Correlated

**Tennessee Academic Standards**

**Science**

Grade: 5 - Adopted: 2007

<b>STRAND / STANDARD / COURSE</b>	<b>TN.T/E.</b>	<b>Technology and Engineering</b>
<b>CONCEPTUAL STRAND / GUIDING QUESTION</b>	<b>CS.T/E.</b>	Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.
<b>GUIDING QUESTION / LEARNING EXPECTATION</b>	<b>GQ.T/E.</b>	How do science concepts, engineering skills, and applications of technology improve the quality of life?
<b>LEARNING EXPECTATION</b>	<b>GLE.0507.T/E.</b>	<b>Grade Level Expectations</b>
<b>INDICATOR</b>	<b>GLE.0507.T/E.1.</b>	Describe how tools, technology, and inventions help to answer questions and solve problems.  <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades The Amazon Rainforest - Part 2 - Younger Grades
<b>INDICATOR</b>	<b>GLE.0507.T/E.2.</b>	Recognize that new tools, technology, and inventions are always being developed.  <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades The Amazon Rainforest - Part 2 - Younger Grades
<b>INDICATOR</b>	<b>GLE.0507.T/E.3.</b>	Identify appropriate materials, tools, and machines that can extend or enhance the ability to solve a specified problem.  <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades The Amazon Rainforest - Part 2 - Younger Grades
<b>STRAND / STANDARD / COURSE</b>	<b>TN.T/E.</b>	<b>Technology and Engineering</b>
<b>CONCEPTUAL STRAND / GUIDING QUESTION</b>	<b>CS.T/E.</b>	Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.
<b>GUIDING QUESTION / LEARNING EXPECTATION</b>	<b>GQ.T/E.</b>	How do science concepts, engineering skills, and applications of technology improve the quality of life?
<b>LEARNING EXPECTATION</b>	<b>0507.T/E.</b>	<b>Checks for Understanding</b>
<b>INDICATOR</b>	<b>0507.T/E.1.</b>	Explain how different inventions and technologies impact people and other living organisms.  <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades The Amazon Rainforest - Part 2 - Younger Grades
<b>INDICATOR</b>	<b>0507.T/E.2.</b>	Design a tool or a process that addresses an identified problem caused by human activity.  <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades The Amazon Rainforest - Part 2 - Younger Grades
<b>STRAND / STANDARD / COURSE</b>	<b>TN.T/E.</b>	<b>Technology and Engineering</b>

CONCEPTUAL STRAND / GUIDING QUESTION	CS.T/E.	Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.T/E.	How do science concepts, engineering skills, and applications of technology improve the quality of life?
LEARNING EXPECTATION	SPI.0507.T/E.	State Performance Indicators
INDICATOR	SPI.0507.T/E.1.	Select a tool, technology, or invention that was used to solve a human problem.  <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades The Amazon Rainforest - Part 2 - Younger Grades
STRAND / STANDARD / COURSE	TN.2.	Life Science: Interdependence
CONCEPTUAL STRAND / GUIDING QUESTION	CS.2.	All life is interdependent and interacts with the environment.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.2.	How do living things interact with one another and with the non-living elements of their environment?
LEARNING EXPECTATION	GLE.0507.2.	Grade Level Expectations
INDICATOR	GLE.0507.2.1.	Investigate different nutritional relationships among organisms in an ecosystem.  <u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest The Amazon Rainforest - Part 1 - Older Grades Who Lives On a Coral Reef?
INDICATOR	GLE.0507.2.2.	Explain how organisms interact through symbiotic, commensal, and parasitic relationships.  <u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol How Coral Reefs Are Formed La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest The Amazon Rainforest - Part 1 - Older Grades Who Lives On a Coral Reef?
INDICATOR	GLE.0507.2.3.	Establish the connections between human activities and natural disasters and their impact on the environment.  <u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 2 - Older Grades The Amazon Rainforest - Part 2 - Younger Grades Who Lives On a Coral Reef?
STRAND / STANDARD / COURSE	TN.2.	Life Science: Interdependence
CONCEPTUAL STRAND / GUIDING QUESTION	CS.2.	All life is interdependent and interacts with the environment.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.2.	How do living things interact with one another and with the non-living elements of their environment?
LEARNING EXPECTATION	0507.2.	Checks for Understanding
INDICATOR	0507.2.1.	Evaluate producer/consumer, predator/prey, and parasite/host relationships.

		<p><u>Virtual Field Trips</u>  African Safari  Galapagos Islands  Galapagos Islands - Espagnol  How Coral Reefs Are Formed  La Selva Amazonica - Pte 1 (En Espagnol)  The Amazon Rainforest  The Amazon Rainforest - Part 1 - Older Grades  Who Lives On a Coral Reef?</p>
INDICATOR	0507.2.2.	<p>Classify interspecific relationships within an ecosystem as mutualism, commensalism, or parasitism.</p> <p><u>Virtual Field Trips</u>  African Safari  Galapagos Islands  Galapagos Islands - Espagnol  How Coral Reefs Are Formed  La Selva Amazonica - Pte 1 (En Espagnol)  The Amazon Rainforest  The Amazon Rainforest - Part 1 - Older Grades  The Amazon Rainforest - Part 2 - Older Grades  The Amazon Rainforest - Part 2 - Younger Grades  Who Lives On a Coral Reef?</p>
INDICATOR	0507.2.3.	<p>Create a simple model illustrating the interspecific relationships within an ecosystem.</p> <p><u>Virtual Field Trips</u>  African Safari  Galapagos Islands  Galapagos Islands - Espagnol  How Coral Reefs Are Formed  La Selva Amazonica - Pte 1 (En Espagnol)  The Amazon Rainforest  The Amazon Rainforest - Part 1 - Older Grades  The Amazon Rainforest - Part 2 - Older Grades  The Amazon Rainforest - Part 2 - Younger Grades  Who Lives On a Coral Reef?</p>
INDICATOR	0507.2.4.	<p>Analyze basic information from a body of text to identify key issues or assumptions about the relationships among organisms in an ecosystem.</p> <p><u>Virtual Field Trips</u>  African Safari  Galapagos Islands  Galapagos Islands - Espagnol  How Coral Reefs Are Formed  La Selva Amazonica - Pte 1 (En Espagnol)  The Amazon Rainforest  The Amazon Rainforest - Part 1 - Older Grades  The Amazon Rainforest - Part 2 - Older Grades  The Amazon Rainforest - Part 2 - Younger Grades  Who Lives On a Coral Reef?</p>
INDICATOR	0507.2.5.	<p>Create a poster to illustrate how human activities and natural disasters affect the environment.</p> <p><u>Virtual Field Trips</u>  Galapagos Islands  Galapagos Islands - Espagnol  National Parks of the Western Region - Part 1  The Amazon Rainforest - Part 2 - Older Grades  The Amazon Rainforest - Part 2 - Younger Grades  Who Lives On a Coral Reef?</p>

<b>STRAND / STANDARD / COURSE</b>	<b>TN.2.</b>	<b>Life Science: Interdependence</b>
<b>CONCEPTUAL STRAND / GUIDING QUESTION</b>	<b>CS.2.</b>	<b>All life is interdependent and interacts with the environment.</b>
<b>GUIDING QUESTION / LEARNING EXPECTATION</b>	<b>GQ.2.</b>	<b>How do living things interact with one another and with the non-living elements of their environment?</b>
<b>LEARNING EXPECTATION</b>	<b>SPI.0507.2.</b>	<b>State Performance Indicators</b>
<b>INDICATOR</b>	<b>SPI.0507.2.1.</b>	Describe the different types of nutritional relationships that exist among organisms.  <u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest The Amazon Rainforest - Part 1 - Older Grades Who Lives On a Coral Reef?
<b>INDICATOR</b>	<b>SPI.0507.2.2.</b>	Distinguish among symbiotic, commensal, and parasitic relationships.  <u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol How Coral Reefs Are Formed La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest The Amazon Rainforest - Part 1 - Older Grades Who Lives On a Coral Reef?
<b>INDICATOR</b>	<b>SPI.0507.2.3.</b>	Use information about the impact of human actions or natural disasters on the environment to support a simple hypothesis, make a prediction, or draw a conclusion.  <u>Virtual Field Trips</u> African Safari Galapagos Islands 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 The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades The Amazon Rainforest - Part 2 - Younger Grades Who Lives On a Coral Reef?
<b>STRAND / STANDARD / COURSE</b>	<b>TN.3.</b>	<b>Life Science: Flow of Matter and Energy</b>
<b>CONCEPTUAL STRAND / GUIDING QUESTION</b>	<b>CS.3.</b>	<b>Matter and energy flow through the biosphere.</b>
<b>GUIDING QUESTION / LEARNING EXPECTATION</b>	<b>GQ.3.</b>	<b>What scientific information explains how matter and energy flow through the biosphere?</b>
<b>LEARNING EXPECTATION</b>	<b>0507.3.</b>	<b>Checks for Understanding</b>
<b>INDICATOR</b>	<b>0507.3.2.</b>	Design a graphic organizer that illustrates the difference between plants and animals in the movement of food energy through an ecosystem.  <u>Virtual Field Trips</u> Galapagos Islands Galapagos Islands - Espagnol Who Lives On a Coral Reef?

STRAND / STANDARD / COURSE	TN.3.	Life Science: Flow of Matter and Energy
CONCEPTUAL STRAND / GUIDING QUESTION	CS.3.	Matter and energy flow through the biosphere.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.3.	What scientific information explains how matter and energy flow through the biosphere?
LEARNING EXPECTATION	SPI.0507.3.	State Performance Indicators
INDICATOR	SPI.0507.3.2.	Compare how plants and animals obtain energy.  <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest The Amazon Rainforest - Part 1 - Older Grades
STRAND / STANDARD / COURSE	TN.4.	Life Science: Heredity
CONCEPTUAL STRAND / GUIDING QUESTION	CS.4.	Plants and animals reproduce and transmit hereditary information between generations.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.4.	What are the principal mechanisms by which living things reproduce and transmit information between parents and offspring?
LEARNING EXPECTATION	GLE.0507.4.	Grade Level Expectations
INDICATOR	GLE.0507.4.1.	Describe how genetic information is passed from parents to offspring during reproduction.  <u>Virtual Field Trips</u> How Coral Reefs Are Formed
STRAND / STANDARD / COURSE	TN.5.	Life Science: Biodiversity and Change
CONCEPTUAL STRAND / GUIDING QUESTION	CS.5.	A rich variety of complex organisms have developed in response to a continually changing environment.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.5.	How does natural selection explain how organisms have changed over time?
LEARNING EXPECTATION	GLE.0507.5.	Grade Level Expectations
INDICATOR	GLE.0507.5.1.	Investigate physical characteristics associated with different groups of animals.  <u>Virtual Field Trips</u> African Safari Galapagos Islands Galapagos Islands - Espagnol How Coral Reefs Are Formed 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 The Amazon Rainforest - Part 1 - Older Grades Who Lives On a Coral Reef?
STRAND / STANDARD / COURSE	TN.5.	Life Science: Biodiversity and Change
CONCEPTUAL STRAND / GUIDING QUESTION	CS.5.	A rich variety of complex organisms have developed in response to a continually changing environment.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.5.	How does natural selection explain how organisms have changed over time?
LEARNING EXPECTATION	0507.5.	Checks for Understanding
INDICATOR	0507.5.1.	Classify animals according to their physical characteristics.  <u>Virtual Field Trips</u>

		<p>African Safari Galapagos Islands Galapagos Islands - Espagnol How Coral Reefs Are Formed La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska &amp; Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest The Amazon Rainforest - Part 1 - Older Grades Who Lives On a Coral Reef?</p>
INDICATOR	0507.5.2.	<p>Design a model to illustrate how an animal's physical characteristics enable it to survive in a particular environment.</p> <p><u>Virtual Field Trips</u> African Safari Galapagos Islands Galapagos Islands - Espagnol How Coral Reefs Are Formed La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska &amp; Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest The Amazon Rainforest - Part 1 - Older Grades Who Lives On a Coral Reef?</p>
STRAND / STANDARD / COURSE	TN.5.	Life Science: Biodiversity and Change
CONCEPTUAL STRAND / GUIDING QUESTION	CS.5.	A rich variety of complex organisms have developed in response to a continually changing environment.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.5.	How does natural selection explain how organisms have changed over time?
LEARNING EXPECTATION	SPI.0507.5.	State Performance Indicators
INDICATOR	SPI.0507.5.1.	<p>Identify physical and behavioral adaptations that enable animals such as, amphibians, reptiles, birds, fish, and mammals to survive in a particular environment.</p> <p><u>Virtual Field Trips</u> African Safari Galapagos Islands Galapagos Islands - Espagnol How Coral Reefs Are Formed La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska &amp; Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades The Amazon Rainforest - Part 2 - Younger Grades Who Lives On a Coral Reef?</p>
STRAND / STANDARD / COURSE	TN.7.	Earth and Space Science: The Earth
CONCEPTUAL STRAND / GUIDING QUESTION	CS.7.	Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.7.	How is the earth affected by long-term and short term geological cycles and the influence of man?
LEARNING EXPECTATION	GLE.0507.7.	Grade Level Expectations

INDICATOR	GLE.0507.7.1.	Compare geologic events responsible for the earth's major geological 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
STRAND / STANDARD / COURSE	TN.7.	Earth and Space Science: The Earth
CONCEPTUAL STRAND / GUIDING QUESTION	CS.7.	Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.7.	How is the earth affected by long-term and short term geological cycles and the influence of man?
LEARNING EXPECTATION	0507.7.	Checks for Understanding
INDICATOR	0507.7.1.	Create a model to illustrate geologic events responsible for changes in the earth's crust.  <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
INDICATOR	0507.7.2.	Prepare a chart to compare how volcanoes, earthquakes, faulting, and plate movements affect the earth's surface 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
STRAND / STANDARD / COURSE	TN.7.	Earth and Space Science: The Earth
CONCEPTUAL STRAND / GUIDING QUESTION	CS.7.	Major geologic events that occur over eons or brief moments in time continually shape and reshape the surface of the Earth, resulting in continuous global change.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.7.	How is the earth affected by long-term and short term geological cycles and the influence of man?
LEARNING EXPECTATION	SPI.0507.7.	State Performance Indicators
INDICATOR	SPI.0507.7.1.	Describe internal forces such as volcanoes, earthquakes, faulting, and plate movements that are responsible for the earth's major geological features such as mountains, valleys, etc.  <u>Virtual Field Trips</u> Galapagos Islands 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 / STANDARD / COURSE	TN.8.	Earth and Space Science: The Atmosphere
CONCEPTUAL STRAND / GUIDING QUESTION	CS.8.	The earth is surrounded by an active atmosphere and an energy system that controls the distribution life, local weather, climate, and global temperature.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.8.	How do the physical characteristics and the chemical makeup of the atmosphere influence surface processes and life on Earth?
LEARNING EXPECTATION	GLE.0507.8.	Grade Level Expectations

INDICATOR	GLE.0507.8.1.	Analyze and predict how major landforms and bodies of water affect atmospheric conditions.  <u>Virtual Field Trips</u> National Parks West - Nevada, California National Parks of the Western Region - Part 1
STRAND / STANDARD / COURSE	TN.8.	Earth and Space Science: The Atmosphere
CONCEPTUAL STRAND / GUIDING QUESTION	CS.8.	The earth is surrounded by an active atmosphere and an energy system that controls the distribution life, local weather, climate, and global temperature.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.8.	How do the physical characteristics and the chemical makeup of the atmosphere influence surface processes and life on Earth?
LEARNING EXPECTATION	0507.8.	Checks for Understanding
INDICATOR	0507.8.2.	Use land maps to demonstrate how mountain ranges affect weather and climate.  <u>Virtual Field Trips</u> National Parks West - Nevada, California National Parks of the Western Region - Part 1
INDICATOR	0507.8.4.	Use local environmental information to analyze how weather and climate are affected by landforms and bodies of water.  <u>Virtual Field Trips</u> National Parks West - Nevada, California National Parks of the Western Region - Part 1
STRAND / STANDARD / COURSE	TN.8.	Earth and Space Science: The Atmosphere
CONCEPTUAL STRAND / GUIDING QUESTION	CS.8.	The earth is surrounded by an active atmosphere and an energy system that controls the distribution life, local weather, climate, and global temperature.
GUIDING QUESTION / LEARNING EXPECTATION	GQ.8.	How do the physical characteristics and the chemical makeup of the atmosphere influence surface processes and life on Earth?
LEARNING EXPECTATION	SPI.0507.8.	State Performance Indicators
INDICATOR	SPI.0507.8.2.	Explain how mountains affect weather and climate.  <u>Virtual Field Trips</u> National Parks West - Nevada, California National Parks of the Western Region - Part 1

**Tennessee Academic Standards  
Social Studies**

Grade: 5 - Adopted: 2013

STRAND / STANDARD / COURSE	TN.5.	The History of America (from 1850)
CONCEPTUAL STRAND / GUIDING QUESTION		Prior to Civil War: Students summarize the events leading up to the Civil War.
GUIDING QUESTION / LEARNING EXPECTATION	5.1.	Compare and contrast the myth of the Antebellum South to the realities of the region including the harshness of slavery, increased immigration to urban areas, and growth of railroads. (C, G, P)  <u>Virtual Field Trips</u> Grade 4 - Southeast Region of the U.S.
STRAND / STANDARD / COURSE	TN.5.	The History of America (from 1850)
CONCEPTUAL STRAND / GUIDING QUESTION		The Civil War and Reconstruction (1860-1877): Understand the causes, course, and consequences of the Civil War, and explain the successes and failures of Reconstruction.



<b>GUIDING QUESTION / LEARNING EXPECTATION</b>	5.18.	Describe the physical, social, political and economic consequences of the Civil War on the southern United States. (E, G)  <u>Virtual Field Trips</u> Grade 4 - Southeast Region of the U.S.
<b>GUIDING QUESTION / LEARNING EXPECTATION</b>	5.21.	Compare and contrast the different Reconstruction plans of Lincoln, Johnson, and Congress. (H, P)  <u>Virtual Field Trips</u> Grade 4 - Southeast Region of the U.S.
<b>STRAND / STANDARD / COURSE</b>	TN.5.	The History of America (from 1850)
<b>CONCEPTUAL STRAND / GUIDING QUESTION</b>		The Modern United States: Students will examine the history of the United States since the conclusion of World War II.
<b>GUIDING QUESTION / LEARNING EXPECTATION</b>	5.62.	Examine the meaning and the main events of the “Cold War, ” including the Space Race, Berlin Wall, arms race, Rosenbergs, and the Cuban Missile Crisis. (C, E, H, P)  <u>Virtual Field Trips</u> Exploring Cuba

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