

Third Grade – Animals All Around (07/09/09)

Vocabulary: amphibians, attributes, birds, extinct, feathers, gills, habitats, life cycle, living, lungs, mammals, manmade, non-living, offspring, organism, patterns, predator, prey, reptiles, survival

Second Grade Vocabulary: amphibians, behavior pattern, birds, characteristics, diversity of life, earth resources, habitat, height, length, mammals, observation, parent/offspring similarity, prehistoric, properties, reptiles, scientist, similarities & differences, symmetry, width

LIFE Science

2. Interdependence

GLE 0307.2.1 Categorize things as living or non-living	✓0307.2.1 Use a T-Chart to compare and contrast the characteristics of living and non-living (post-visit package)
	✓0307.2.3 Construct a diagram to demonstrate how plants, animals, and environment interact to provide basic life requirements

LIFE Science

3. Flow of Matter & Energy

GLE 0307.3.1 Describe how animals use food to obtain energy and materials for growth and repair	

LIFE Science

4. Heredity

GLE 0307.4.1 Identify the different life stages through which plants and animals pass	✓307.4.3 Differentiate among the stages in the life cycle of a butterfly, mealworm, frog, and plant
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LIFE Science

5. Biodiversity and Change

GLE 0307.5.1 Explore the relationship between an organism's characteristics and its ability to survive in a particular environment	✓307.5.1 Create representations of animals that have characteristics necessary to survive in a particular environment
	✓0307.5.2 Investigate the connection between an organism's characteristics and its ability to survive in a specific environment
	✓0307.5.5 Construct a diorama that shows plants and animals in an appropriate environment (post-visit package)
	✓0307.5.6 Identify evidence used to determine the previous existence of an organism

Third Grade – Energy in Everything (07/09/09)

Vocabulary: energy, force, friction, gravity, magnetic attraction, parallel circuit, series circuit, simple circuit

Second Grade Vocabulary: circular motion / straight line motion/ zigzag motion, distance, feet, inches, length, magnification, magnifier, properties, second (time)

EMBEDDED INQUIRY

GLE 0407.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	
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EARTH and SPACE Science

8. The Atmosphere

GLE 0407.8.1 Recognize the major components of the water cycle	✓Prepare a model that illustrates the basic features of the water cycle
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PHYSICAL Science

9. Matter

GLE 0407.9.1 Collect data to illustrate that the physical properties of matter can be described with tools that measure weight, mass, length, and volume	✓Use appropriate tools to measure and compare the physical properties of various solids and liquids
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PHYSICAL Science

10. Energy

GLE 0407.10.2 Investigate how light travels and is influenced by different types of materials and surfaces	✓0407.10.3 Gather and organize information about a variety of materials to categorize them as translucent, transparent, or opaque
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PHYSICAL Science

11. Motion

GLE 0407.11.2 Design a simple investigation to demonstrate how friction affects the movement of an object	✓0407.11.4 Plan and execute an investigation that demonstrates how friction affects the movement of an object
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GLE 0407.11.3 Investigate the relationship between the speed of an object and the distance traveled during a certain time period	✓0407.11.5 Design and implement an investigation to determine that the speed of an object is equal to the distance traveled over time
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PHYSICAL Science

12. Forces in Nature

GLE 0407.12.1 Explore the interactions between magnets	
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GLE 0407.12.1 Explore the interactions between an electrically charged object and other materials	✓0407.12.2 Design an experiment to investigate how a simple electromagnet affects common objects
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GLE 0407.12.2 Observe that electrically charged objects exert a pull on other materials	
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GLE0407.12.3 Explain how electricity in a simple circuit requires a complete loop through which current can pass	0407.12.3 Determine the path of an electrical current in a simple circuit
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Fourth Grade – Energy in Everything – cont.

MATH

1. Mathematical Processes

	✓0406.1.5 Measure using ruler, meter stick, clock, thermometer, or other scaled instruments
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5. Data, Probability and Statistics

GLE 0406.5.1 Collect, record, arrange, present, and interpret data using tables and various representations	
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Third Grade – Festival of Holiday Trees (07/01/09)

Vocabulary: cardinal directions, culture, equator, global, latitude, longitude, map key (legend)

Second Grade Vocabulary: custom, tradition

Social Studies

Culture

3.1.01 Understand the diversity of human cultures	3.1.01a Recognize that changes in culture occur through the spread of people, languages, ideas, and goods
3.1.02 Discuss cultures and human patterns of places and regions of the world	
3.1.03 Recognize the contributions that individuals and people of various ethnic, racial, religious, and socioeconomic groups have made to the development of civilizations	3.1.03.a Explain the significance of selected ethnic and/or cultural celebrations in Tennessee, the United States and other nations such as St. Patrick's Day, Cinco de Mayo, and Kwanzaa
3.1.04 Understand the contributions of individuals and people of various ethnic, racial, religious, and socioeconomic groups to Tennessee	3.1.04a Compare ethnic and/or cultural celebrations in Tennessee, the United States, and other nations

Social Studies

Geography

3.3.01 Understand how to use maps, globes, and other geographic representations, tools, and technologies to acquire process and report information from a spatial perspective	3.3.01.a Locate places on a map using cardinal and intermediate direction
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Third Grade – Habitat Cents Museum to Go only (07/10/09)

Vocabulary: characteristics, energy, environment, food, natural resources, observe, offspring, organism, photosynthesis, predator, prey, scientific method, survive

Embedded Inquiry

GLE 0307.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	✓0307.Inq.1 Identify specific investigations that could be used to answer a particular question and identify reasons for this choice
GLE 0307.Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	✓0307.Inq.3 Maintain a science notebook that includes observations, data, diagrams, and explanations
GLE 0307.Inq.6 Compare the results of an investigation with what scientists already accept about this question	

LIFE Science

2. Interdependence

GLE 0307.2.1 Categorize things as living or non-living	✓0307.2.2 Label a drawing of an environment to illustrate interrelationships among plants and animals (post pack)
GLE 0307.2.2 Explain how organisms with similar needs compete with one another for resources	

Life Science

3. Flow of Matter and Energy

GLE 0307.3.1 Describe how animals use food to obtain energy and materials for growth and repair.	✓0307.3.1 Label a diagram to illustrate the food relationships that exist between plants and animals (post pack)
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LIFE Science

5. Biodiversity and Change

GLE 0307.5.1 Explore the relationship between an organism's characteristics and its ability to survive in a particular environment	✓0307.5.2 Investigate the connection between an organism's characteristics and its ability to survive in a specific environment ✓0307.5.3 Describe how environmental factors change over place and time ✓0307.5.4 Determine how changes in an environmental variable can affect plants and animals of an area ✓0307.5.5 Construct a diorama that shows plants and animals in an appropriate environment (post pack)
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Third Grade – KidsBuild KEVA – Museum to Go only (07/09/09)

Vocabulary: above, behind, below, , in front, left, rectangle, right, shape, square, triangle, under

Second Grade Vocabulary: distance, geometric shapes/figures, height, length, width

Embedded Inquiry

GLE 0307.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	✓ 0307.Inq.1 Identify specific investigations that could be used to answer a particular question and identify reasons for this choice
GLE 0307.Inq.2 Select and use appropriate tools and simple equipment to conduct an investigation	
GLE 0307.Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	

PHYSICAL Science

11. Motion

GLE 0307.11.1 Explore how the direction of a moving object is affected by unbalanced forces	✓ 0307.11.1 Plan an investigation to illustrate how changing the mass affects a balanced system
GLE0307.11.2 Recognize the relationship between the mass of an object and the force needed to move it	

MATH

3. Algebra

GLE 0306.3.3 Describe and analyze patterns and relationships in contexts (length, width, thickness, over, under, beside)	✓ 0306.3.7 Create different representations of a pattern given a verbal description
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MATH

4. Geometry and Measurement

GLE 0306.4.4 Use appropriate units, strategies and tools to solve problems involving perimeter	✓ 0306.4.5 Understand that all measurements require units
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MATH

5. Data Analysis, Statistics, and Probability

GLE 0306.5.1 Organize, display, and analyze data using various representations to solve problems	✓ 0306.5.1 Collect and organize data using observations, surveys, and experiments ✓ 0306.5.2 Construct a frequency table, bar graph, pictograph, or line plot of collected data ✓ 0306.5.3 Compare and interpret different representations of the same data
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Third Grade – Rock Hounds (07/09/09)

Vocabulary: extinct, force, geological features, magnetic attraction, measurement, natural resources, physical properties, scientific method, water cycle, weathering

Second Grade Vocabulary: characteristics, different, earth resources, prehistoric, magnification, magnifier, properties, scientist, shape, similar, symmetry, weight

Embedded Inquiry

GLE 0307.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	
GLE 0307.Inq.2 Select and use appropriate tools and simple equipment to conduct an investigation	✓ 0307.Inq.2 Identify tools needed to investigate specific questions
GLE 0307 Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	

LIFE Science

2. Interdependence

GLE 0307.2.1 Categorize things as living or non-living	✓0307.2.1 Use a T-Chart to compare and contrast the characteristics of living and non-living
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EARTH and SPACE Science

7. The Earth

GLE 0307.7.2 Recognize that rocks can be composed of one or more minerals	✓0307.7.2 Analyze the physical characteristics of different kinds of rocks
GLE 0307.7.3 Distinguish between natural and manmade objects	✓0307.7.3 Use a magnifier to observe, describe, and compare materials to determine if they are natural or manmade

PHYSICAL Science

12. Forces in Nature

GLE 0307.12.1 Explore how magnets attract objects made of certain metals	✓0307.12.1 Experiment with magnets to determine how distance affects magnetic attraction ✓0307.12.2 Determine that only certain types of objects are attracted to magnets
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Third Grade – Science Explorer (07/10/09) - 90 Minutes

Vocabulary: atmosphere, conservation, energy, extinct, force, life cycle, natural resources, offspring, organism, photosynthesis, physical properties, pollution, precipitation, predator, prey, scientific method, water cycle

Second Grade Vocabulary: characteristics, difference, characteristics, life cycle, magnification, magnifier, prehistoric, similar, shape, symmetry, width

Embedded Inquiry

GLE 0307.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	
GLE 0307.Inq.2 Select and use appropriate tools and simple equipment to conduct an investigation	✓ 0307.Inq.2 Identify tools needed to investigate specific questions
GLE 0307 Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	

LIFE Science

2. Interdependence

GLE 0307.2.1 Categorize things as living or non-living	✓0307.2.1 Use a T-Chart to compare and contrast the characteristics of living and non-living
	✓0307.2.3 Construct a diagram to demonstrate how plants, animals, and environment interact to provide basic life requirements

LIFE Science

3. Flow of Matter & Energy

GLE 0307.3.1 Describe how animals use food to obtain energy and materials for growth and repair	
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LIFE Science

4. Heredity

GLE 0307.4.1 Identify the different life stages through which plants and animals pass	✓307.4.3 Differentiate among the stages in the life cycle of a butterfly, mealworm, frog, and plant
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LIFE Science

5. Biodiversity and Change

GLE 0307.5.1 Explore the relationship between an organism's characteristics and its ability to survive in a particular environment	✓307.5.1 Create representations of animals that have characteristics necessary to survive in a particular environment ✓0307.5.2 Investigate the connection between an organism's characteristics and its ability to survive in a specific environment ✓0307.5.5 Construct a diorama that shows plants and animals in an appropriate environment
	✓0307.5.6 Identify evidence used to determine the previous existence of an organism

Third Grade – Science Explorer (06/18/09) 90 Minutes	

PHYSICAL Science

11. Motion

GLE 0307.11.1 Explore how the direction of a moving object is affected by unbalanced forces	
	✓0307.11.1 Plan an investigation to illustrate how changing the mass affects a balanced system
GLE 0307.11.2 Recognize the relationship between the mass of an object and the force needed to move it	

PHYSICAL Science

12. Forces in Nature

GLE 0307.12.1 Explore how magnets attract objects made of certain metals	
	✓0307.12.1 Experiment with magnets to determine how distance affects magnetic attraction
	✓0307.12.2 Determine that only certain types of objects are attracted to magnets

MATH

5. Data, Probability and Statistics

GLE 0306.5.1 Organize, display, and analyze data using various representations to solve problems	
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Third Grade – S.T.A.R. (07/09/09)

Vocabulary: atmosphere, moon phases (basic four), observe, orbit, rotation, solar system, weathering

EARTH and SPACE Science

6. The Universe

GLE 0307.6.1 Identify and compare the major components of the solar system

EARTH and SPACE Science

7. The Earth

GLE 0307.7.2 Recognize that rocks can be composed of one or more minerals

✓0307.7.2 Analyze the physical characteristics of different kinds of rocks

GLE 0307.7.3 Distinguish between natural and manmade objects

✓0307.7.3 Use a magnifier to observe, describe, and compare materials to determine if they are natural or manmade

PHYSICAL Science

11. Motion

GLE 0307.11.1 Explore how the direction of a moving object is affected by unbalanced forces

✓0307.11.1 Plan an investigation to illustrate how changing the mass affects a balanced system

MATH

1. Mathematical Processes

GLE 0306.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution

✓0306.1.1 Read and write time to the nearest minute

✓0306.1.13 Create and use representations to organize, record, and communicate mathematical ideas

MATH

2. Number and Operations

GLE 0306.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution

✓0306.2.10 Understand that symbols such as $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$ represent numbers called unit fractions

MATH

4. Geometry and Measurement

GLE 0306.4.4 Use appropriate units, strategies and tools to solve problems involving perimeter

✓ 030604.5 Understand that all measurements require units

✓ 0306.4.10 Use reasonable units of length in estimates and measures

✓ 0306.4.13 Use common abbreviations: km, m, cm, in, ft, yd, mi

Third Grade – Tennessee Ties and Cherokee Nation (07/09/09) 90 minutes

Vocabulary: agriculture, barter, borders, culture, folktale, future, cardinal and intermediate directions, legend, natural resources, past, present, wants and needs

Vocabulary: ancient times, arrowhead, artifacts, Cherokee Nation, chief, clans, heritage, natural resources, modern times, skins, tradition, Trail of Tears, village

CULTURE

1.01 Understand the diversity of human culture	b. Compare cultural differences in various regions of the United States and the world
1.02 Discuss cultures and human patterns of places and regions of the world	a. Describe similarities and differences in the ways groups, societies, and cultures address similar human needs and concerns b. Compare ways in which people from different cultures think about and deal with their physical environment and social conditions
1.03 Recognize the contributions of individuals and people of various ethnic, racial, religious, and socioeconomic groups to the development of civilizations	b. Retell the heroic deeds of characters from folktales and legends

GEOGRAPHY

3.01 Understand how to use maps, globes, and other geographic representations, tools, and technologies to acquire, process and report information from a spatial perspective	c. Locate places on a map using cardinal and intermediate direction
3.02 Recognize the interaction between human and physical systems around the world	a. Analyze how individuals and populations depend upon land resources b. Describe the importance of physical geographic features on defining communities e. List earth's natural resources such as minerals, air, water, and land
3.03 Demonstrate how to identify and locate major physical and political features on globes and maps	e. Show the population distribution of the state, and country

GOVERNANCE and CIVICS

4.01 Discuss the structure and purposes of governance	e. Examine how regions choose to govern in different ways
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Third Grade – Tennessee Ties and Cherokee Nation cont.

HISTORY

5.01 Identify major people, events, and issues in Tennessee, United States, and world history	a. Identify the heroic deeds of characters from state, national, and global histories b. Identify historical figures that helped to shape regions
5.02 Understand the place of historical events in the context of past, present and future	a. Describe the order of events by using designation of time periods such as ancient times and modern times b. Describe how individuals, events, and ideas cause regional change over time d. Use vocabulary related to chronology, including past, present, and future
5.03 Explain how to use historical information acquired from a variety of sources	a. Identify and explain the significance of various community landmarks b. Create and interpret timelines c. Compare various interpretations of the same time period using evidence such as photographs and interviews

INDIVIDUALS, GROUPS, and INTERACTIONS

6.01 Recognize the impact of individual and group decisions on citizens and communities	a. Give examples of conflict, cooperation and interdependence among individuals, groups and nations b. Examine the relationships and conflict between personal wants and needs and various global concerns, such as us of imported oil, land use, and environmental protection c. Give examples of economic, social, or political changes that result from individual or group decisions
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Third Grade – Wetland Challenge (07/09/09) 90 minutes

Vocabulary: amphibian, bird, life cycle, mammal, natural resources, observe, offspring, organism, photosynthesis, pollution, precipitation, predator, prey, reptile

Second Grade Vocabulary: distance, earth resources, habitat, observation, parent/offspring similarity, similar, different

Embedded Inquiry

GLE 0307.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	
GLE 0307.Inq.2 Select and use appropriate tools and simple equipment to conduct an investigation	✓ 0307.Inq.2 Identify tools needed to investigate specific questions
GLE 0307 Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	

LIFE Science

2. Interdependence

GLE 0307.2.1 Categorize things as living or non-living	✓0307.2.1 Use a T-Chart to compare and contrast the characteristics of living and non-living (post-visit package)
	✓0307.2.3 Construct a diagram to demonstrate how plants, animals, and environment interact to provide basic life requirements (post-visit package)

LIFE Science

3. Flow of Matter & Energy

GLE 0307.3.1 Describe how animals use food to obtain energy and materials for growth and repair	✓307.4.3 Differentiate among the stages in the life cycle of a butterfly, mealworm, and frog
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LIFE Science

4. Heredity

GLE 0307.4.1 Identify the different life stages through which plants and animals pass	

LIFE Science

5. Biodiversity and Change

GLE 0307.5.1 Explore the relationship between an organism's characteristics and its ability to survive in a particular environment	✓0307.5.2 Investigate the connection between an organism's characteristics and its ability to survive in a specific environment ✓0307.5.5 Construct a diorama that shows plants and animals in an appropriate environment (post-visit package)
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Third Grade – Wetland Challenge cont.

EARTH and SPACE Science

6. The Universe

GLE 0107.6.2 Realize that the sun can only be seen during the day, while the moon can be seen at night and sometimes during the day	
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EARTH and SPACE Science

7. The Earth

GLE 0307.7.3 Distinguish between natural and manmade objects	
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MATH

MATH

5. Data, Probability and Statistics

GLE 0306.5.1 Organize, display, and analyze data using various representations to solve problems	
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