

Fifth Grade – Animals All Around (07/10/09)

Vocabulary: ecosystem, fossils, inherited traits, metamorphosis (complete and incomplete), species

Fourth Grade Vocabulary: adaptations, amphibians, carnivores, endangered, herbivores, heredity, mammals, metamorphosis, omnivores, reptiles, threatened, thriving, traits/characteristics

EMBEDDED INQUIRY

GLE 0507.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	
GLE 0507.Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	

LIFE Science

2. Interdependence

GLE 0507.2.1 Investigate different nutritional relationships among organisms in an ecosystem	✓0507.2.1 Evaluate producer/consumer, predator/prey, and parasite/host relationships
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LIFE Science

3. Flow of Matter & Energy

GLE 0507.3.1 Demonstrate how all living things rely on the process of photosynthesis to obtain energy (post pack)	
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LIFE Science

4. Heredity

GLE 0507.4.1 Recognize that some characteristics are inherited while others result from interactions with the environment	✓0507.4.2 Create a chart that compares heredity and environmental traits
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LIFE Science

5. Biodiversity and Change

GLE 0507.5.1 Investigate physical characteristics associated with different groups of animals	✓0507.5.1 Classify animals according to their physical characteristics ✓0507.5.2 Design a model to illustrate how an animal's physical characteristics enable it to survive in a particular environment
GLE 0507.5.2 Analyze fossils to demonstrate the connection between organisms and environments that existed in the past and those that currently exist	✓0507.5.3 Identify the processes associated with fossil formation ✓0507.5.4 Use fossil evidence to describe an environment from the past ✓0507.5.5 Use fossils to match a previously existing organism with one that exists today

Fifth Grade – Energy in Everything (07/10/09)

Vocabulary: conduction, conductor, force, insulator, kinetic energy, light reflection, magnetic field, opaque, translucent, transparent, potential energy

Fourth Grade Vocabulary: distance, friction, gravity, parallel circuit, series circuit, solar energy, speed

PHYSICAL Science

10. Energy

GLE 0507.10.1 Design an experiment to illustrate the difference between potential and kinetic energy	✓0507.10.1 Design and conduct an investigation to demonstrate the difference between potential and kinetic energy

PHYSICAL Science

11. Motion

GLE 0507.11.1 Design an investigation, collect data and draw conclusions about the relationship among mass, force, and distance traveled	✓0507.11.1 Predict how the amount of mass affects the distance traveled given the same amount of applied force
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PHYSICAL Science

12. Forces in Nature

GLE 0507.12.2 Investigate how the shape of an object influences the way that it falls toward the earth	✓07012.2 Demonstrate how the shape of an object affects how it falls toward the earth
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MATH

5. Data, Probability and Statistics

	GLE 0506.5.1 Make, record, display and interpret data and graphs that include whole numbers, decimals, and fractions
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Fifth Grade – Festival of Holiday Trees (07/10/09)

Vocabulary: ethnic, traditions

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

Social Studies

Culture

5.1.01 Understand the diversity of human cultures	
5.1.02 Discuss cultures and human patterns of places and regions of the world	5.1.02.a Explain how some immigrants preserved their traditional culture and created a new American culture
5.1.03 Recognize the contributions that individuals and people of various ethnic, racial, religious, and socioeconomic groups have made to the development of civilizations	5.1.03.b Describe how language, stories, folktales, music, and artistic creations serve as expressions of culture and influence behavior of people living in a particular culture
5.1.04 Understand the contributions of individuals and people of various ethnic, racial, religious, and socioeconomic groups to Tennessee	5.1.04b Identify customs, celebrations, and traditions of selected racial, ethnic, and religious groups in Tennessee

Fifth Grade – Habitat Cents Museum to Go only (07/10/09)

Vocabulary: ecosystem, environmental changes (human & nature), species

Fourth Grade Vocabulary: amphibian, adaptations, heredity, mammals, renewable/non-renewable, reptiles, threatened, thriving, traits/characteristics

Embedded Inquiry

GLE 0507.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	
GLE 0507.Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	✓0506.1.5 Maintain a science notebook that includes observations, data, diagrams, and explanations
GLE 0507.Inq.6 Compare the results of an investigation with what scientists already accept about this question	

LIFE Science

2. Interdependence

GL 0507.2.2 Investigate different nutritional relationships among organisms in an ecosystem GLE 0507.2.3 Establish the connections between human activities and natural disasters and their impact on the environment	✓0507.2.1 Evaluation producer/consumer, predator/prey, and parasite/host relationships
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LIFE Science

5. Biodiversity and Change

GLE 0507.5.1 Investigate physical characteristics associated with different groups of animals	✓0507.5.11 Classify animals according to their physical characteristics
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Fifth Grade – KidsBuild KEVA – Museum to Go only (07/10/09)

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

Embedded Inquiry

GLE 0507.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data

✓ 0507.Inq.1 Identify specific investigations that could be used to answer a particular question and identify reasons for this choice

Embedded Technology and Engineering

GLE 0507.T/E.3 Identify appropriate materials, tools, and machines that can extend or enhance the ability to solve a specified problem

✓ 0507.T/E.3 Determine criteria to evaluate the effectiveness of a solution to a specified problem

PHYSICAL Science

10. Energy

GLE 0507.10.1 Design an experiment to illustrate the difference between potential and kinetic energy

✓ 0507.10.1 Design and conduct an investigation to demonstrate the difference between potential and kinetic energy

MATH

4. Geometry and Measurement

GLE 0506.4.1 Use basic formulas and visualization to find the area of geometric figures

Fifth Grade – Rock Hounds (07/10/09)

Vocabulary: chemical change, contract/expand, fossils (relative age)

Fourth Grade Vocabulary: earth's layers, erosion, mixture, renewable/nonrenewable

Embedded Inquiry

GLE 0507.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	
GLE 0507.Inq.2 Select and use appropriate tools and simple equipment to conduct an investigation	✓0507.Inq.2 Identify tools needed to investigate specific questions
GLE 0507.Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	

Embedded Technology & Engineering

GLE 0507.T/E/1 Describe how tools, technology, and inventions help to answer questions and solve problems	
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Life Science

5. Biodiversity and Change

GLE 0507.5.2 Analyze fossils to demonstrate the connection between organisms and environments that existed in the past and those that currently exist	✓0507.5.4 Use fossil evidence to describe an environment from the past ✓0507.5.5 Use fossils to match a previously existing organism with one that exists today
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Fifth Grade – Science Explorer (07/10/09) – 90 minutes

Vocabulary: fossils (relative age), kinetic energy, potential energy

Fourth Grade Vocabulary: adaptations, amphibians, birds, carnivores, condensation, ecosystem, environment, evaporation, food web, friction, herbivores, gravity, mammals, metamorphosis, omnivores, precipitation, renewable/nonrenewable

Embedded Inquiry

GLE 0507.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	
GLE 0507.Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	

LIFE Science

2. Interdependence

GLE 0507.2.3 Establish the connections between human activities and natural disasters and their impact on the environment	
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LIFE Science

3. Flow of Matter & Energy

	✓ 0507.3.1 Demonstrate how all living things rely on the process of photosynthesis to obtain energy
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LIFE Science

5. Biodiversity and Change

GLE 0507.5.1 Investigate physical characteristics associated with different groups of animals	✓0507.5.1 Classify animals according to their physical characteristics
	✓0507.5.2 Design a model to illustrate how an animal's physical characteristics enable it to survive in a particular environment
GLE 0507.5.2 Analyze fossils to demonstrate the connection between organisms and environments that existed in the past and those that currently exist	✓0507.5.3 Identify the processes associated with fossil formation ✓0507.5.4 Use fossil evidence to describe an environment from the past ✓0507.5.5 Use fossils to match a previously existing organism with one that exists today

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

10. Energy

GLE 0507.10.1 Design an experiment to illustrate the difference between potential and kinetic energy	✓0507.10.1 Design and conduct an investigation to demonstrate the difference between potential and kinetic energy
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Fifth Grade – Science Explorer cont. (07/10/09) – 90 minutes

PHYSICAL Science

11. Motion

GLE 0507.11.1 Design an investigation, collect data and draw conclusions about the relationship among mass, force, and distance traveled

✓0507.11.1 Predict how the amount of mass affects the distance traveled given the same amount of applied force

PHYSICAL Science

12. Forces in Nature

GLE 0507.12.2 Investigate how the shape of an object influences the way that it falls toward the earth

✓0570.12.2 Demonstrate how the shape of an object affects how it falls toward the earth

MATH

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GLE 0506.5.1 Make, record, display and interpret data and graphs that include whole numbers, decimals, and fractions

Fifth Grade – S.T.A.R. (07/10/09)

Vocabulary: revolution

Fourth Grade Vocabulary: lunar, moon phases (correct sequence), solar energy

EARTH and SPACE Science

6. The Universe

GLE 0507.6.1 Compare planets based on their known characteristics

✓0507.6.1 Develop a chart that communicates the major characteristics of each planet

GLE 0507.6.2 Recognize that charts can be used to locate and identify star patterns

✓0507.6.2 Use images of the night sky to identify seasonal star patterns

✓0507.6.3 Research a star pattern using a chart

EARTH and SPACE Science

12. Forces in Nature

GLE 0507.12.3 Provide examples of how forces can act at a distance

✓0507.12.1 Explain and give examples of how forces act at a distance

✓0507.12.3 Design and explain an investigation exploring the earth's pull on objects

Fifth Grade – Wetland Challenge (07/10/09) – 90 minutes

Vocabulary: ecosystem, environmental changes (human & nature), photosynthesis, species

Fourth Grade Vocabulary: adaptations, amphibians, exotic, heredity, invasive, mammals, reptiles, thriving, traits/characteristics

Embedded Inquiry

GLE 0507.Inq.1 Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data	
GLE 0507.Inq.3 Organize data into appropriate tables, graphs, drawings, or diagrams	

LIFE Science

2. Interdependence

GLE 0507.2.3 Establish the connections between human activities and natural disasters and their impact on the environment	
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LIFE Science

3. Flow of Matter & Energy

	✓ 0507.3.1 Demonstrate how all living things rely on the process of photosynthesis to obtain energy
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LIFE Science

5. Biodiversity and Change

GLE 0507.5.1 Investigate physical characteristics associated with different groups of animals	✓ 0507.5.1 Classify animals according to their physical characteristics
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