

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

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

First Grade Vocabulary: amphibians, attributes, birds, dinosaur, environment, extinct, feathers, gills, habitats, life cycle, living, lungs, mammals, manmade, non-living, offspring, patterns, reptiles, salt water, scales, senses, survival

Embedded Inquiry

GLE 0207.Inq.1 Use senses/simple tools for observations	✓0207.Inq.1 Use senses and simple tools to make observations
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Embedded Technology & Engineering

GLE 0207.T/E.1 Recognize that both natural materials and human-made tools have specific characteristics that determine their use	✓ 0207.T/E.1 Explain how simple tools are used to extend the senses, make life easier, and solve everyday problems
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LIFE Science

1. Cells

GLE 0207.1.1 Recognize that plants and animals are made up of smaller parts and use food, water, and air to survive	✓0207.1.1 Design a new living thing and explain how it would acquire food, water, and air (<i>post-visit information</i>)
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LIFE Science

2. Interdependence

GLE 0207.2.1 Investigate habitats of local plants and animals (wetlands)	✓0207.2.1 Use pictures of local environment to label plants and animals (<i>pre-visit information</i>)
GLE 0207.2.3 Identify basic ways that plants and animals depend on each other	✓0207.2.3 Construct flow chart of interaction of plants, animals, environment providing basic life requirements (<i>post-visit information</i>)

LIFE Science

3. Flow of Matter & Energy

GLE 0207.3.1 Recognize that animals eat plants or other animals for food	✓0207.3.1 Design habitat for an organism in which all of its needs would be met (<i>post-visit information</i>)
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LIFE Science

4. Heredity

GLE 0207.4.1 Compare life cycles of various organisms	✓0207.4.2 Sequence a collection of pictures or illustrations into the correct stages of an organism's life cycle
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Second Grade – Animals All Around cont.

LIFE Science

5. Biodiversity and Change

GLE 0207.5.1 Investigate relationship between an animal's characteristics and features of environment where it lives	✓0207.5.2 Infer the characteristics needed by an organism to survive in a particular environment (<i>post-visit information</i>)
GLE 0207.5.2 Draw conclusions from fossils about organism that lived in the past	✓0207.5.3 Observe fossils or pictures of fossils and make inferences about the organisms from which they originated ✓0207.5.4 Compare pictures of fossils with animals or plants that are living today

PHYSICAL Science

9. Matter

GLE 0207.9.1 Use tools to observe the physical properties of objects	✓0207.9.1 Use tools such as hand lenses, ... to gather data about the physical properties of different objects
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PHYSICAL Science

10. Energy

GLE 0207.10.1 Explain why the sun is the primary source of the earth's energy	
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Second Grade – Festival of Holiday Trees (07/09/09)

Vocabulary: custom, tradition

First Grade Vocabulary: America, citizen, community, country, flag, globe, map, past

Embedded Inquiry

GLE0207.Inq.1 Observe the world of familiar objects using the senses and tools	✓ 0207.Inq.1 Use senses and simple tools to make observations
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Social Studies

Culture

2.1.01 Understand the diversity of human cultures	2.1.01.b Recognize communities have customs and cultures that differ 2.1.01.c Recognize patterns of cultural traits such as language, religion, and family structure
2.1.02 Discuss cultures and human patterns of places and regions of the world	2.1.02.a Identify diverse cultural groups within the communities of Tennessee 2.1.02.c Understand that Tennessee's culture has ties to other cultures in the world 2.1.02.d Recognize that cultures have strong traditions of loyalty to their region or country
2.1.03 Recognize the contributions that individuals and people of various ethnic, racial, religious, and socioeconomic groups have made to the development of civilizations	2.1.03.c Recognize diverse cultural neighborhoods within Tennessee and America

Social Studies

Geography

2.3.03 Demonstrate how to identify and locate major physical and political features on globes and maps	2.3.03a Show how landmasses and bodies of water are represented on maps and globes
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MATH

3. Algebra

GLE 0206.3.2 Recognize attributes (color, size, shape) and patterns (bilateral symmetry)	
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Second Grade – KidsBuild KEVA – Museum to Go only (07/09/09)

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

First Grade Vocabulary: balance, earth gravity, guess/estimate, position, prediction

Embedded Inquiry

GLE 0207.Inq.1 Observe the world of familiar objects using the senses and tools	✓ 0207.Inq.1 Use senses and simple tools to make observations
GLE 0207.Inq.2 Ask questions, make logical predictions, plan, investigations, and represent data	
GLE 0207.Inq.3 Explain the data from an investigation	✓ 0207.Inq.3 Communicate understanding of simple data using age-appropriate vocabulary

Embedded Technology & Engineering

GLE 0207.T/E.K.2 Apply engineering design and creative thinking to solve practical problems	✓ 0207.T/E.2 Invent designs for simple products
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PHYSICAL Science

12. Forces in Nature

GLE 0207.Realize that things fall toward the ground unless something holds them up	✓ 0207.12.2 Describes what happens when an object is dropped
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MATH

3. Algebra

GLE 0206.3.1 Develop pattern recognition	
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MATH

5. Data, Probability and Statistics

GLE 0206.5.3 Determine whether an event is likely or unlikely	✓ 0206.5.3 Explain whether a real world event is likely or unlikely
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Second Grade – Pebble Puppies (07/09/09)

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

First Grade Vocabulary: color, freezing, heavy, hardness, light, liquid, magnet, natural resources, measure, predict, recycle, shape, size, solid, texture

Embedded Inquiry

0207.Inq.1 Use senses / simple tools for observations	
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EMBEDDED TECHNOLOGY and ENGINEERING

GLE 0207.T/E.2 Apply engineering design and creative thinking to solve practical problems	✓ 0207.T/E.3 Use tools to measure materials and construct simple products
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LIFE Science

5. Biodiversity and Change

GLE 0207.5.1 Investigate relationship between an animal's characteristics and features of environment where it lives	
GLE 0207.5.2 Draw conclusions from fossils about organisms that lived in the past	✓0207.5.3 Observe fossils and make inferences about the organisms from which they originated ✓0207.5.4 Compare pictures of fossils with animals or plants that are living today

EARTH and SPACE Science

6. The Universe

GLE 0207.6.1 Realize that the sun is our nearest star and that its position in the sky appears to change.	✓0207.6.1 Observe and collect data on the sun's position at different times of the day.
GLE 0207.6.2 Make observations of changes in the moon's appearance over time	

EARTH and SPACE Science

7. The Earth

GLE 0207.7.1 Compare and record components of a variety of soil types	✓ 0207.7.1 Sort, analyze, and compare a variety of soils
GLE 0207.7.2 Describe rocks according to their origin, size, shape, texture, and color	✓ 0207.7.2 Observe rocks of different sizes with a hand lens and describe materials
GLE 0007.7.3 Differentiate between renewable and non-renewable resources	✓0207.7.4 Identify simple methods for reusing the earth's resources

PHYSICAL Science

9. Matter

GLE 0207.9.1 Use tools to observe the physical properties of objects	✓0207.9.1 Use tools such as hand lenses, measurement devices, and simple arm balances to gather data about the physical properties of objects
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Second Grade – Pebble Puppies cont. (07/09/09)

PHYSICAL Science

10. Energy

GLE 0207.10.1 Explain why the sun is the primary source of the earth's energy	✓ 0207.10.1 Identify and explain how the sun affects objects on the surface of the earth
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SOCIAL STUDIES

Geography

2.3.02 Recognize the interaction between human and physical systems around the world	e. List earth's natural resources such as minerals, air, water, and land
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MATH

1. Mathematical Processes

	✓ 0206.1.6 Read thermometers with Fahrenheit and Celsius scales
	✓ 0206.1.7 Measure weight to the nearest pound

MATH

5. Data, Probability and Statistics

	✓ 0206.5.2 Read, interpret, and create tables using tally marks
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Second Grade – Splash, Flash, Crank, Slide, Alive (07/09/09) – 60 minutes

Vocabulary: magnification, prehistoric, scientist, sound, vibration

First Grade Vocabulary: amphibian, bird, dinosaur, earth gravity, environment, heat, greater than, light, liquid, mammal, ocean, reptile

Embedded Inquiry

GLE 0207.Inq.1 Observe the world of familiar objects using the senses and tools	✓0207.Inq.1 Use senses and simple tools to make observations
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LIFE Science

2. Interdependence

	✓0207.2.2 Investigate ways that plants and animals depend on each other
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LIFE Science

3. Flow of Matter & Energy

GLE 0207.3.1 Recognize that plants and animals grow and change over time	
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LIFE Science

4. Heredity

GLE 0207.4.2 Realize that parents pass along physical characteristics to their offspring	
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LIFE Science

5. Biodiversity and Change

GLE 0207.5.2 Draw conclusions from fossils about organisms that lived in the past	✓0207.5.3 Observe fossils or pictures of fossils and make inferences about the organisms from which they originated ✓0207.5.4 Compare pictures of fossils with animals or plants that are living today
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PHYSICAL Science

9. Matter

GLE 0207.9.1 Use tools to observe the physical properties of objects	✓0207.9.1 Use tools such as hand lenses, measurement devices, and simple arm balances to gather data about the physical properties of different objects
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PHYSICAL Science

10. Energy

GLE 0207.10.1 Explain why the sun is the primary source of the earth's energy	
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Second Grade – Splash, Flash, Crank, Slide, Alive – cont.

PHYSICAL Science

11. Motion

GLE 0207.11.1 Investigate how vibrating objects produce sound	✓0207.11.1 Use a variety of objects that vibrate to demonstrate how sounds are produced
GLE 0207.11.2 Classify sounds according to their loudness and pitch	✓0207.11.2 Describe the sounds produced by different types of vibrating objects.

PHYSICAL Science

12. Forces in Nature

GLE 0207.12.2 Realize that things fall toward the ground unless something holds them up	
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MATH

2. Number and Operations

GLE 0206.2.1 Understand and use the base-ten numeration system	
GLE 0206.2.4 Develop an initial understanding of multiplication	✓0206.2.1 Starting at any number, count by ones, twos, fives, tens, and hundreds (up to 1000)

Second Grade – Science Explorer (07/08/09) – 90 minutes

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

First Grade Vocabulary: amphibian, bird, dinosaur, earth gravity, environment, heat, greater than, light, liquid, mammal, ocean, reptile, salt water (ocean)

Embedded Inquiry

0207.Inq.1 Observe the world of familiar objects using the senses and tools	
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Embedded Technology and Engineering

GLE 0207.T/E.2 Apply engineering design and creative thinking to solve practical problems	✓ 0207.T/E.3 Use tools to measure materials and construct simple products
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LIFE Science

1. Cells

GLE 02071.1 Recognize that plants and animals are made up of smaller parts and use food, water, and air to survive	✓0207.1.1 Design a new living thing and explain how it would acquire food, water, and air (post pack)
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LIFE Science

2. Interdependence

GLE 0207.2.1 Investigate habitats of local plants and animals	
GLE 0207.2.2 Investigate living things found in different places	✓0207.2.2 Investigate ways that plants and animals depend on each other ✓0207.2.3 Construct flow chart of interaction of plants, animals, environment providing basic life requirements

LIFE Science

3. Flow of Matter & Energy

GLE 0207.3.1 Recognize that animals eat plants or other animals for food	✓0207.3.1 Design habitat for an organism in which all of its needs would be met (post pack)
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LIFE Science

4. Heredity

GLE 0207.4.1 Compare life cycles of various organisms	✓0207.4.2 Sequence a collection of pictures or illustrations into the correct stages of an organism's life cycle
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Second Grade – Science Explorer (07/08/09) – 90 minutes

LIFE Science

5. Biodiversity and Change

GLE 0207.5.1 Investigate relationship between an animal's characteristics and features of environment where it lives	
GLE 0207.5.2 Draw conclusions from fossils about organisms that lived in the past	✓0207.5.3 Observe fossils and make inferences about the organisms from which they originated ✓0207.5.4 Compare pictures of fossils with animals or plants that are living today

PHYSICAL Science

10. Energy

GLE 0207.10.1 Explain why the sun is the primary source of the earth's energy	✓ 0207.10.1 Identify and explain how the sun affects objects on the surface of the earth
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PHYSICAL Science

11. Motion

GLE 0207.11.1 Investigate how vibrating objects produce sound	✓ 0207.11.1 Use a variety of objects that vibrate to demonstrate how sounds are produced
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PHYSICAL Science

12. Forces in Nature

GLE 0207.12.1 Experiment with magnets to determine objects can move without being touched	✓ 0207.12.1 Explain how 2 magnets interact
GLE 0207.12.2 Realize that things fall toward the ground unless something holds them up	

SOCIAL STUDIES

2.3.02 Recognize the interaction between human and physical systems around the world	d. Understand the rudimentary elements to the hydrological cycle
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MATH

1. Mathematical Processes

	✓ 0206.1.5 Use a thermometer to measure temperature ✓ 0206.1.6 Recognize scales as a way to measure weight
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MATH

2. Number and Operations

	✓ 0206.2.1 Starting at any number, count by ones, twos, fives, tens, and hundreds
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MATH

5. Data, Probability and Statistics

	✓ 0206.5.2 Represent data in both horizontal and vertical form
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Second Grade – Tennessee Ties and Cherokee Nation (07/09/09)

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

Vocabulary: Cherokee Nation, chief, clans, community/village, natural resources, respect, Trail of Tears

CULTURE

1.01 Understand the diversity of human culture	a. Recognize most cultures preserve important personal and public items from the past b. Recognize communities have customs and cultures that differ c. Recognize patterns of cultural traits such as language, religion, and family structure
1.02 Discuss cultures and human patterns of places and regions of the world	a. Identify diverse cultural groups within the communities of Tennessee
1.03 Recognize the contributions of individuals and people of various ethnic, racial, religious, and socioeconomic groups to the development of civilizations	a. Identify and explain the significance of selected stories, poems, statues, paintings, and other examples of local and state cultural heritage

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	d. Recognize that a map contains elements such as title, scale, symbols, legends, grids, 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	b. Locate the state of Tennessee and its major cities on a map

GOVERNANCE and CIVICS

4.01 Discuss the structure and purposes of governance	c. Be aware that every community has some form of governance d. Describe how governments establish order, provide security, and manage conflict
4.02 Describe the Constitution of the United States and the Tennessee State Constitution in principle and practice	a. Know that communities have different laws depending on the needs and problems of their community

Second Grade – Tennessee Ties and Cherokee Nation cont

HISTORY

5.01 Identify major events, people, and patterns in Tennessee, United States, and world history	b. Explain how local people and events have influenced local community history
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. Use vocabulary related to chronology, including past, present and future d. Comprehend that physical and human characteristics of communities change over time
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

Second Grade – Wetland Wonders (07/09/09)

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

First Grade Vocabulary: heat, light, liquid, shelter, solid, temperature, weather patterns (seasonal)

Embedded Inquiry

0207.Inq.1 Use senses/simple tools for observations	
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LIFE Science

1. Cells

GLE 02071.1 Recognize that plants and animals are made up of smaller parts and use food, water, and air to survive	✓0207.1.1 Design a new living thing and explain how it would acquire food, water, and air
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LIFE Science

2. Interdependence

GLE 0207.2.1 Investigate habitats of local plants and animals	✓0207.2.1 Use pictures of local environment to label plants and animals
GLE 0207.2.2 Investigate living things found in different places	
	✓0207.2.2 Investigate ways that plants and animals depend on each other ✓0207.2.3 Construct flow chart of interaction of plants, animals, environment providing basic life requirements (post-visit package)

LIFE Science

3. Flow of Matter & Energy

GLE 0207.3.1 Recognize that animals eat plants or other animals for food	✓0207.3.1 Design habitat for an organism in which all of its needs would be met (post pack?)
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LIFE Science

4. Heredity

GLE 0207.4.1 Compare life cycles of various organisms	
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LIFE Science

5. Biodiversity and Change

GLE 0207.5.1 Investigate relationship between an animal's characteristics and features of environment where it lives	
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EARTH and SPACE Science

6. The Universe

GLE 0207.6.1 Realize the sun is nearest star and that its position in the sky appears to change	
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Second Grade – Wetland Wonders (07/09/09) cont

EARTH and SPACE Science

7. The Earth

GLE 0207.7.1 Compare and record components of a variety of soil types	
GLE 0007.7.3 Differentiate between renewable and non-renewable resources	✓0207.7.4 Identify simple methods for reusing the earth's resources

9. Matter

GLE 0207.9.1 Use tools to observe the physical properties of objects	✓0207.9.1 Use tools such as hand lenses, measurement devices, and simple arm balances to gather data about the physical properties of objects
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PHYSICAL Science

10. Energy

GLE 0207.10.1 Explain why the sun is the primary source of the earth's energy	✓ 0207.10.1 Identify and explain how the sun affects objects on the surface of the earth
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SOCIAL STUDIES

Geography

2.3.02 Recognize the interaction between human and physical systems around the world	e. List earth's natural resources such as minerals, air, water, and land
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MATH

1. Mathematical Processes

	✓ 0106.1.5 Use a thermometer to measure temperature
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MATH

5. Data, Probability and Statistics

GLE 0106.5.1 Use various representations to display and compare data	✓ 0106.5.2 Represent data in both horizontal and vertical form
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Second Grade – Zip and Zoom (06/19/09)

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

First Grade Vocabulary: backward, balance, between, direction, earth gravity, forward, light (energy), prediction, pulling, pushing

Embedded Inquiry

0207.Inq.1 Use senses / simple tools for observations	
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EMBEDDED TECHNOLOGY and ENGINEERING

GLE 0207.T/E.2 Apply engineering design and creative thinking to solve practical problems	✓ 0207.T/E.3 Use tools to measure materials and construct simple products
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PHYSICAL Science

9. Matter

GLE 0207.9.1 Use tools to observe the physical properties of objects	✓ 0207.9.1 Use tools such as hand lenses, measurement devices, and simple arm balances to gather data about the physical properties of objects
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PHYSICAL Science

11. Motion

GLE 0207.11.1 Investigate how vibrating objects produce sound	✓ 0207.11.1 Use a variety of objects that vibrate to demonstrate how sounds are produced
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PHYSICAL Science

12. Forces in Nature

GLE 0207.12.1 Experiment with magnets to determine objects can move without being touched	✓ 0207.12.1 Explain how 2 magnets interact
GLE 0207.12.2 Realize that things fall toward the ground unless something holds them up	

MATH

1. Mathematical Processes

	✓ 0206.1.5 Use a thermometer to measure temperature
	✓ 0206.1.6 Recognize scales as a way to measure weight

MATH

2. Numbers and Operations

	✓ 0206.2.1 Starting at any number, count by ones, twos, fives, tens, and hundreds
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MATH

5. Data, Probability and Statistics

	✓ 0206.5.2 Represent data in both horizontal and vertical form
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