

**Kindergarten
Elementary Science Academic Plan
2008-2009**

QUARTER 1	QUARTER 2
<p>Strand H:</p> <ul style="list-style-type: none">• The Nature of Science· Introduction Chapter <p>Strand D:</p> <ul style="list-style-type: none">• Processes that Shape the Earth· Chapters 4 & 5 <p>Strand E:</p> <ul style="list-style-type: none">• Earth and Space· Chapter 6	<p>Strand A:</p> <ul style="list-style-type: none">• The Nature of Matter· Chapter 1 <p>Strand B:</p> <ul style="list-style-type: none">• Energy· Chapter 2
QUARTER 3	QUARTER 4
<p>Strand C:</p> <ul style="list-style-type: none">• Force and Motion· Chapter 3 <p>Strand F:</p> <ul style="list-style-type: none">• Processes of Life· Chapter 7	<p>Strand F:</p> <ul style="list-style-type: none">• Processes of Life· Chapter 8 <p>Strand G:</p> <ul style="list-style-type: none">• How Living Things Interact with Their Environment· Chapter 9

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
CONTENT: STRAND H: THE NATURE OF SCIENCE					
Standard1: The student uses the scientific processes and habits of mind to solve problems					
*Benchmark SC.H.1.1: the student knows that in order to learn, it is important to observe the same thing often and compare them.					
1	SC.H.1.1.1 knows that learning can come from careful observation	Pg. 8-9 Intro 1			
*Benchmark SC.H.1.1.2 the student knows when tests are repeated under the same or similar condition, similar results are usually obtained.					
1	SC.H.1.1.2.1 repeats events several times and compares findings.	Pg. 10-11 Intro 2			
*Benchmark SC.H.1.1.3 the student knows that when doing science, it is often helpful to work with a team and to share finding with others.					
1	SC.H.1.1.3.1 works with a partner or small group to collect information	Pg. 10-11 Intro 2			
1	SC.H.1.1.3.2 shares findings about scientific investigations with others	Pg. 10-11 Intro 2			
*Benchmark SC.H.1.1.4: the student knows that people use the scientific process including hypothesis, making inferences, and recording and communicating data when exploring the natural world.					
1	SC.H.1.1.4.1 poses questions, seeks answers, draws pictures of observations, and makes decisions using information.	Pg. 10-11 Intro 2			
*Benchmark SC.H.1.1.5: The student uses the senses, tools and instruments to obtain information from his or her surroundings.					
1	SC.H.1.1.5.1 knows that the five senses (touch, taste, smell, hearing, sight) allow us to take in and respond to information in order to learn about our surroundings.	Pg. 8-9 Intro 1 Pg. 140-141 4-2			

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
1	SC.H.1.1.5.2 uses standard (for example, centimeters) and nonstandard units (for example, paper clips, hands, pencils) to measure organisms and objects and parts of organisms and objects.				
Standard 2. The student understands that most natural events occur in comprehensible, consistent patterns.					
*Benchmark SC.H.2.1.1: the student knows that most natural events occur in patterns.					
1	SC.H.2.1.1.1 understands that continuous patterns occur in nature (for example, seasons, phases of the Moon, blooming flowers).	Pg. 182-195 5-3 Pg. 204-209 6-1 Pg. 210-217 6-2			
Standard 3. The student understands that science, technology, and society are interwoven and interdependent.					
*Benchmark SC.H.3.1.1: the student knows that scientists and technologists use a variety of tools (e.g., thermometers, magnifiers, rulers, and scales) to obtain information in more detail and to make work easier					
1	SC.H.3.1.1.1: knows some appropriate tools for collecting information and extending the senses.	Pg. 12-13 Intro 3 Pg. 176-181 5-2			
CONTENT: STRAND D: PROCESSES THAT SHAPE THE EARTH					
Standard 1: The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the earth.					
*Benchmark SC.D.1.1.1: The student recognizes that the solid materials making up the Earth come in all sizes from boulders to grains of sand.					
1	SC.D.1.1.1.1 knows that the surface of the Earth is composed of different types of solid materials (for example, sand, pebbles, rocks, clumps of dirt).	Pg. 140-147 4-2			

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
*Benchmark SC.D.1.1.2: The student knows that life occurs on or near the surface of the Earth in land, sea, water, and air.					
1	SC.D.1.1.2.1 knows that life occurs on or near the surface of the Earth in land, water, and air.	Pg. 132-139 4-1			
*Benchmark SC.D.1.1.3: The student recognizes patterns in weather.					
1	SC.D.1.1.3.1 uses charts to display daily changes in the weather.. (SC.H.1.1.3.2)	Pg. 168-175 5-1			
Standard 2.The student understands the need for protection of the natural systems on Earth.					
Benchmark SC.D.2.1.1 The student understands that people influence the quality of life of those around them.					
1	SC.D.2.1.1.1 knows ways to care for the Earth at home, in school (for example, limiting use of paper towels, turning off water while brushing teeth, turning off lights when no one is in the room).(SC.H.3.1.1.1)	Pg. 154-161 4-4			
CONTENT: STRAND E: EARTH AND SPACE					
Standard 1.The student understands the interaction and organization in the Solar System and the universe and how this affects life on Earth.					
Benchmark SC.E.1.1.1: the student knows that the light reflected by the Moon looks a little different every day but looks the same again about every 28 days.					
1	SC.E.1.1.1.1 knows that the sky looks different during the day than it does at night..(SC.H.1.1.4.1)	Pg. 204-209 6-1 Pg. 210-217 6-2			
*Benchmark SC.E.1.1.2: the student knows that the appearance of sunrise and sunset is due to the rotation of Earth every 24 hours.					
1	SC.E.1.1.2.1 knows that the position of the Sun in the sky appears to change during the day.	Pg. 204-209 6-1			

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
Standard 2. The student recognizes the vastness of the universe and the Earth's place in it.					
Benchmark SC.E.2.1.1 The student knows that there are many oobjects in the sky that are only visible at night.					
1	SC.E.2.1.1.1 knows some of the objects seen in the night sky (for example, stars, Moon). (SC.H.1.1.1.1)	Pg. 204-209 6-1 Pg. 210-217 6-2			
End of Quarter 1					

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
CONTENT: STRAND A: THE NATURE OF MATTER					
Standard 1. The student understands that all matter has observable, measurable properties.					
*Benchmark SC.A.1.1.1: The student knows that objects can be described, classified, and compared by their composition(e.g., wood or metal) and their physical properties (e.g., color, size and shape).					
2	SC.A.1.1.1.1 knows that objects have many different observable properties: color, shapes (circle, triangle, square), forms (flexible, stiff, straight, curved), textures (rough, smooth, hard, soft), sizes and weights (big, little, large, small, heavy, light, wide, thin, long, short), positions and speeds (over, in, under, out, above, below, left, right, fast, slow).. (SC.H.1.1.1.1)	Pg. 30-39 1-2 Pg. 40-49 1-3 Pg. 148-153 4-3			
Benchmark SC.A.1.1.2: The student recognizes that the same material can exist in different states.					
2	SC.A.1.1.2.1 knows that matter exists in different states (solid, liquid, gas).	Pg. 24-29 1-1 Pg. 50-55 1-4			
*Benchmark SC.A.1.1.3: The student verifies that things can be done to materials to change some of their physical properties (e.g., cutting, heating, and freezing), but not all materials respond the same way (e.g., heating causes water to boil and sugar to melt).					
2	SC.A.1.1.3.1 knows that materials can be changed by cutting, folding, bending and mixing.	Pg. 50-55 1-4			
Standard 2. The student understands the basic principal of atomic theory.					
2	SC.A.2.1.1.1 knows that some objects are made up of many different materials (SC.H.3.1.1.1)	Pg. 40-49 1-3			

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
CONTENT: STRAND B. ENERGY					
Standard 1. The student recognizes that energy may be changed in form with varying efficiency.					
*Benchmark SC.B.1.1.1 student knows that the Sun supplies heat and light energy to Earth.					
2	SC.B.1.1.1.1 knows the effect of sun and shade on the same object(for example, crayon, ice, chocolate.(SC.H.1.1.2.1)	Pg. 62-69 2-1			
Benchmark SC.B.1.1.2 the students know that light can pass through some objects and not others.					
2	SC.B.1.1.2.1 knows that light will pass through some objects, but cannot pass through other objects.	Pg.70-75 2-2			
*Benchmark SC.B.1.1.3 the students describes a model energy system (e.g. an aquarium or terrarium)					
2	SC.B.1.1.3.1 understands that a terrarium or an aquarium is a model of a system. (SC.H.1.1.4.1)	Pg 82-87 2-4			
*Benchmark SC.B.1.1.4 The student knows that heat can be produced in many ways (e.g., by burning and rubbing)					
2	SC.B.1.1.4.1 knows some processes that heat can be released(for example, playing a radio, burning a candle.).	Pg 82-87 2-4			
*Benchmark SC.B.1.1.5 The student knows that every human action requires energy that comes from food.					
2	SC.B.1.1.5.1 understands that people eat food to survive.	Pg 76-81 2-3			
End of Quarter 2					

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
CONTENT: STRAND C: FORCE AND MOTION					
Standard 1: The student understands that types of motion may be described, measured and predicted.					
Benchmark SC.C.1.1.1 The student understands that different things move at different speeds.					
3	SC.C.1.1.1.1 understands that different things move at different speeds (bicycle/ motorcycle, car/ plane, tortoise/hare)..(SC.H.1.1.3.2)	Pg. 96-103 3-1			
Benchmark SC.C.1.1.2 The student knows there is a relationship between force and motion					
3	SC.C.1.1.2.1 knowsthe names of objects that roll, slide, or fly.	Pg. 96-103 3-1			
Standard 2: The student understands that types of force that act on an object and the effect of that force can be described,measured, and predicted					
*Benchmark SC.C 2.1.1 the student knows that one way to change how something is moving is to give it a push or a pull					
3&4	SC.C.2.1.1.1 _knows that the motion of an object (for example, toy, truck, toy car, ball, marble) can be changed by a push or pull.)(SC.H.2.1.1.1)	Pg.104-109 3-2			
*Benchmark SC.C 2.1.2: The student knows that sound is caused by vibrations (pushing and pulling) to cause waves.					
3&4	SC.C.2.1.2.1 knows that vibrations caused by sound waves can be felt (for example, on a speaker when the music is played, the head of a drum when it is hit, or a tuning fork)	Pg.118-123 3-4			

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
CONTENT: STRAND F: PROCESSES OF LIFE					
Standard1. The student describes patterns of structure and function in living things.					
*Benchmark SC.F.1.1.1 The student knows the basic needs of all living things.					
3&4	SC.F.1.1.1.1 knows some of the basic needs of living things (for example, food, water, space).	Pg.240-247 7-3 Pg. 270-275 8-2			
*Benchmark SC.F.1.1.2 The student knows how to apply knowledge about life processes to distinguish between living and nonliving things					
3&4	SC.F.1.1.2.1 content addressed at first and second grades.				
*Benchmark SC.F.1.1.3 The student describes how things change as they grow and mature					
3&4	SC.F.1.1.3.1 knows ways living things change and grow over time (for example, seed to flowering plant, tadpole to frog).	Pg.248-255 7-4 Pg. 276-283 8-3			
*Benchmark SC.F.1.1.4: The student understands that structures of living things are adapted to their function in specific environments.					
3&4	SC.F.1.1.4.1 knows that plants and animals are found in different kinds of environments and are often hidden.	Pg.292-301 9-1			
*Benchmark SC.F.1.1.5: The student compares and describes the structural characteristics of plants and animals.					
3&4	SC.F.1.1.5.1 knows selected characteristics of plants and animals (for example, shape, size, color). (SC.H.1.1.4.1)	Pg.232-239 7-2 Pg. 262-269 8-1			

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
Standard 2. the student understands the importance of genetic diversity.					
*Benchmark SC.F 2.1.1: The student knows that living things have offspring that resemble their parents.					
3&4	SC.F.2.1.1.1: knows names for animal offspring(for example, puppies, kittens, cubs, calves, chicks, children)	Pg.248-255 7-4			
End of Quarter 3					

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
*Benchmark SC.F.2.1.2: The student knows that there are many different kinds of living things that live in a variety of environments.					
4	SC.F.2.1.2.1 knows plants and animals may live in different habitats.	Pg.292-301 9-1			
Strand G: How Living Things Interact with Their Environments.					
Standard 1: The student understands the competitive, interdependent, cyclic nature of living things in their environment.					
*Benchmark SC.G.1.1.1: The student knows that environments have living and nonliving parts.					
4	SC.G.1.1.1.1 content addressed in first grade				
*Benchmark SC.G.1.1.2: The student knows that plants and animals are dependent upon each other for survival.					
4	SC.G.1.1.2.1 understands ways that animals obtain food from plants and other animals.	Pg.302-307 9-2			
*Benchmark SC.G.1.1.3.: The student knows that there are many different plants and animals living in many different kinds of environments (e.g., hot, cold, wet, dry, sunny and dark)					
4	SC.G.1.1.3.1 content addressed in first and second grade.				
Standard 2 The student understands the consequences of using limited natural resources.					
*Benchmark SC.G.2.1.1: The student knows that if living things do not get food, water, shelter and space they will die.					
4	SC.G.2.1.1.1 knows that if living things do not get food, water, shelter, and space, they will die.	Pg.240-247 7-3 Pg. 270-275 8-2 Pg. 292-293 9-1			

**Kindergarten
Elementary Science Academic Plan
2008-2009**

Grade KG- QUARTER 1: Chapters		TEXTBOOK SEQUENCE			
Q	SSS Grade Level Expectations (District additions) *Building Block Benchmarks	Textbook Resources Identified by Chapter-Section (i.e., 4 - 6)	Supplemental Resources	Instructional Strategies	Assessment
*Benchmark SC.G.2.1.2: The student knows that the activities of humans affect plants and animals in many ways.					
4	SC.G.2.1.2.1 content addressed at first and second grades.				
End of Quarter 4					