Unit: Scientific Inquiry, Technology, and Tools

Content Standard: Apply the scientific process to solve real life problems.

Course Content	Student Performance	Resources	Assessments
A. Identify and use the nature of scientific and	Distinguish between scientific facts and	• Teacher's Edition pp. 3, 19, 35, 57, 89, 93, 97, 113, 149.	Teacher observations
A. Identify and use the nature of scientific and technological knowledge. • Distinguish between: • Scientific fact • Belief.	Distinguish between scientific facts and misconceptions by completing activities listed in teacher's edition under science misconception	• Teacher's Edition pp. 3, 19, 35, 57, 89, 93, 97, 113, 149, and 151	Student discussion

Unit: Scientific Inquiry, Technology, and Tools

Content Standard: Apply the scientific process to solve real life problems

Course Content	Student Performance	Resources	Assessments
B. Describe objects in the world using the five senses.	,	Living and Nonliving: 4.6.4 A Discovery Walk	Teacher observations
 using the five senses. Recognize observational descriptors from each of the five senses. (e.g., see-blue, feel-rough). Use observations to develop a descriptive vocabulary. 	senses is used to make observations during experiments Use and develop a descriptive vocabulary while recording experiment results	 Discovery Walk Seasons: 3.2.4 B Seasons: 3.2.4.C Fall: Leaf Color Change Winter: Snow Melt Spring: How Strong is the Wind Summer: Heat Absorption Catching Pollution Fossil Fuels Smoking Machine Fred Fish Cleaning Oil Spills Away With Waster It's A Gas In the Bag Ice Melts Does Matter Take Up Space? Can Matter Change? 	Student discussion

Unit: Scientific Inquiry, Technology, and Tools

Content Standard: Apply the scientific process to solve real life problems

Course Content	Student Performance	Resources	Assessments
C. Recognize and use the elements of scientific inquiry	Identify the steps of the scientific method:	Living and Nonliving: 4.6.4 A Discovery Walk	Teacher observations
elements of scientific inquiry to solve problems. Generate questions Objects Organisms Events answered through scientific investigations.	scientific method: Ask a question Identify a problem Make a hypothesis Control the variables Plan a fair test/experiment Conduct the test/experiment Collect and record data Make a conclusion	Discovery Walk Seasons: 3.2.4 B Seasons: 3.2.4.C Fall: Leaf Color Change Winter: Snow Melt Spring: How Strong is the Wind Summer: Heat Absorption Catching Pollution Fossil Fuels Smoking Machine Fred Fish Cleaning Oil Spills Away With Waster It's A Gas In the Bag Ice Melts Does Matter Take Up Space?	Student discussion
		Can Matter Change?See above experiments	
Conduct an experiment.	Actively participate in steps of the scientific method when completing experiments		

Unit: Scientific Inquiry, Technology, and Tools

Content Standard: Apply the scientific process to solve real life problems.

Course Content	Student Performance	Resources	Assessments
D. Recognize and use the	Scientific Inquiry,	Scientific Inquiry,	Teacher observations
technological design	Technology, and Tools	Technology, and Tools	
process to solve problems.	3.2.4.C	3.2.4.C	Student discussion
Recognize and explain			
basic problems.			
 Identify possible solutions and their 			
course of action.			
Try a solution.			
Describe the solution,			
identify its impacts and			
modify if necessary.			
 Show the steps taken 			
and the results.			

Unit: Scientific Inquiry, Technology, and Tools

Content Standard: Select appropriate technological tools to collect, analyze, and communicate information and ideas.

State Curriculum Standard: 3.7.4 Technology Devices

 A. Explore the use of basic tools, simple materials and techniques to safely solve Identify science tools Discuss use Gather scientific data Identify science tools Discuss use Art Link –Teacher's Edition, Make poster of the use of basic tools of Science Tools Art Link –Teacher's Edition, 	of Safety Use
problems. • Select and safely apply appropriate tools and materials to solve simple problems. page FM 21	

Unit: Life Science: Living and Nonliving

Content Standard: Examine the flow of energy within an ecosystem and how its organisms have changed over time.

State Curriculum Standard:

Course Content	Student Performance	Resources	Assessments
 A. Understand that living things are dependent on nonliving things in the environment for survival Identify and categorize living and nonliving things. 	 Name characteristics of living and nonliving things Name everything you can see in your classroom that is living or nonliving Go for a "discovery walk" and look for living things and nonliving 	 Teacher Edition: Chapter 1, variety of living and nonliving things Classroom Neighborhood/school-yard 	Select, share, and explain a magazine picture as a living thing and nonliving object
Identify basic needs of a plant and an animal and explain how their needs are met.	Make a list of basic needs	Teacher Edition: Chapter 1 Teacher-generated basic need pictures	Teacher observations Assessment Book pp. 1-2

Unit: Life Science: Farm Animals

Content Standard: Describe living things, their appearance, different types of life, the scope of their similarities and differences, where and how life

changed over time.

State Curriculum Standard: 3.3.4 Biological Sciences

Course Content	Student Performance	Resources	Assessments
A. Know the similarities and difference of living things.	 Identify air, food, water, and space as basic needs of 	Teacher's Edition pp 6-7, 16-23	Activity Flip Chart – p. 21
 Describe basic needs of plants and animals. 	plants and animals	• Flip Chart pp. 6-7, 16-23	Teacher observations
plante and animale.			Student discussion

Unit: Life Science: Farm Animals

Content Standard: Describe living things, their appearance, different types of life, the scope of their similarities and differences, where and how life changed over time.

State Curriculum Standard: 3.3.4 Biological Science

Course Content	Student Performance	Resources	Assessments
 B. Know that characteristics are inherited and thus, offspring closely resemble their parents. Identify physical characteristics that appear in both parents and offspring and differ between families, strain, or species. 	After sharing <u>Hello, Farm Animals, Farm Animals,</u> or <u>Baby Animals</u> , name farm animals and their babies	Aileen Curan	 Play: Mother and Babies memory game Complete: Mother's Love Teacher observations
	Read and share <u>Spots</u> , <u>Feathers</u> , <u>and Curly Tails</u> , then rewrite covering each page with black paper containing an opening	Spots, Feathers, and Curly Tails by Wendy Tafuri	Student discussion
	Use flannel board pieces to identify similarities between parents and offspring	Flannel farm animal pieces	
	After viewing <u>A Day With Annie On The Farm</u> video, name farm animals and their babies	"A Day With Annie On The Farm" video	
	Recognize farm animals and their offspring	Mother, Mother, Can You Find Me?	

Unit: Life Science: Farm Animals

Content Standard: Design, create, use, evaluate, and modify systems of Biotechnologies, Information Technologies, and Physical Technologies.

State Curriculum Standard: 3.6.4 Technology Education

Course Content	Student Performance	Resources	Assessments
A. Know that biotechnologies relate to propagating, growing, maintaining, adapting, treating, and converting.		Videos: "Let's Go to the Farm and Big Equipment"	Student discussionTeacher observations
 Identify agricultural and industrial production processes that involve plants and animals. 	 After viewing Let's Go to the Farm or Big Equipment, identify ways that farm products get to marker After reading A Visit: To The Dairy Farm, read, discuss and complete individual student booklet, How Do We Get The Milk We Drink? 	A Visit to The Dairy Farm How Do We Get The Milk We Drink?	

Unit: Life Science: Farm Animals

Content Standard: Investigate the relationship of agricultural science and society's standard of living.

Course Content	Student Performance	Resources	Assessments
A. Know the importance of agriculture to humans.Identify people's basic	Refer to Our Earth, Our Home 4.2.4.A	Refer to Our Earth, Our Home 4.2.4.A	Student discussion
needs • Know how people depend on agriculture.	Share and discuss dairy products by hosting a Dairy Day to sample dairy products	Various dairy productsDairy Foods Survey	Complete: Dairy Foods Survey
	Match farm products to their sources using a pocket chart and pictures	 Pocket chart and product pictures Match the Animals and Crops 	Complete: Match the Animals and Crops

Unit: Life Science: Farm Animals

Content Standard: Investigate the relationship of agricultural science and society's standard of living.

Course Content	Student Performance	Resources	Assessments
B. Identify the role of the sciences in Pennsylvania agriculture.			Teacher observationsStudent discussion
 Identify common animals found on Pennsylvania farms. 	Refer to Farm 3.3.4 C	Refer to Farm 3.3.4 C	• Student discussion
 Identify common plants found on Pennsylvania farms. 	 Identify corn, pumpkins, apples, squash, bean, and wheat as some of the crops grown on Pennsylvania by visiting a working farm 	Local farms such as Elvern Farms	
	 Compare and contrast local vegetables using a Venn Diagram 	Venn Diagram	
	After reading Tops and Bottoms, identify the crops found in story that are also planted on Pennsylvania farms	Tops and Bottoms by Janet Stevens	

Unit: Life Science: Farms Animals

Content Standard: Investigate the relationship of agricultural science and society's standard of living.

Course Content	Student Performance	Resources	Assessments
D. Know that food and fiber originate from plants and			Student discussion
animals.Define and identify food and fiber.	Living and Nonliving: 4.6.4 A	Living and Nonliving: 4.6.4 A	Teacher observations
 Identify what plants and animals need to grow. 	Living and Nonliving 4.6.4 A	Living and Nonliving 4.6.4 A	
 Identify agricultural products that are local 	• Farms: 4.4.4 B	• Farms: 4.4.4 B	
and regional.Describe several	• Farms: 4.4.4.A	• Farms: 4.4.4.A	
products and tell their origins. Describe the journey of a local agricultural product from production in the consumer.	• Farms: 4.4.4 A	• Farms: 4.4.4 A	

Unit: Life Science: Farms Animals

Content Standard: Investigate the relationship of agricultural science and society's standard of living.

Course Content	Student Performance	Resources	Assessments
D. Identify technology and energy use associated with agriculture.			Student discussionTeacher observations
 Identify the various tools and machinery. necessary for farming. Identify tools and machinery used in the production of agriculture products. 	• Farms: 3.6.4 A	• Farms: 3.6.4 A	Teacher observations

Unit: Life Science: Plants

Content Standard: Describe living things, their appearance, different types of life, the scope of their similarities and differences, where and how life changed over time.

Course Content	Student Performance	Resources	Assessments
A. Know the similarities and differences of living things.	After reading, <u>The Reason</u> for a Flower, identify what is	The Reason for a Flower by Ruth Heller	Teacher observations
 Describe basic needs of plants and animals. 	a plant by completing What is A Plant?	What is a Plant?	Student discussion
	Sort vocabulary cards into plants and not a plant groups	Vocabulary cards	Complete: What's Missing?
	Recite <u>Plants' Need</u> and illustrate student copy of chant to show a plant's basic needs	Plants NeedWhat's Missing?	
	Recite <u>I'm a Little Sunflower</u> or <u>Growing Seeds</u> then identify the basic needs of a plant	<u>I'm a Little Sunflower</u><u>Growing Seeds</u>	
	Set up and observe Plant Needs experiments		

Unit: Life Science: Plants

Content Standard: Describe living things, their appearance, different types of life, the scope of their similarities and differences, where and how life

changed over time.

State Curriculum Standard: 3.3.4 Biological Science

Course Content	Student Performance	Resources	Assessments
B. Know that living things are made up of parts that have specific functions.			Teacher observationsStudent discussion
Determine how different parts of a living thing work together to make the organism functions.	 Read and discuss "What are the parts of a plant?" Using flannel board pieces build and name the parts of a plant 	 Teacher's Edition pp. 40-41 Flannel board plant pieces. Seeds, Seeds, Seeds 	Student discussion
	 After reading <u>Seeds</u>, <u>Seeds</u>, <u>Seeds</u>, identify what a seed is and its function Complete Baby Beans to learn that a seed contains a baby plant 	Baby Beans	
	 Plant seeds in Root-Vue Observe roots of a plant and discuss their function 	 Root-Vue, seeds Plant with roots What do roots do? 	Complete: What do roots do?
	 Observe various stems and discuss their functions Make predictions, observe and record results of Color Up experiment 	 Various plant stems. What do stems do? Color Up, celery, food coloring, water, clear cup 	Complete: What do stems do?
	After reading Red Leaf, Yellow Leaf, discuss the functions of a leaf	Red Leaf, Yellow Leaf by Lois Ehlert	

Unit: Life Science: Plants

Content Standard: Describe living things, their appearance, different types of life, the scope of their similarities and differences, where and how life changed over time.

State Curriculum Standard: 3.3.4 Biological Science

Course Content	Student Performance	Resources	Assessments
	 Complete What makes a red, orange, or yellow leaf? Experiment to reinforce functions of a leaf Observe a flower to located 	What makes a red, orange, or yellow leaf? white paper, green tempera, crayons, plastic spoons	
	seeds. Identify the function of a flower	Various flowers with visible	
	Read and discuss: "How do plants grow?" to identify the parts of a plants and their	seeds	Label the parts of a plant
	 functions Sing <u>Flower Garden</u> to identify parts of a plant and the function of each 	Teacher's Edition pp. 42-43Picture of a plant<u>Flower Garden</u>	
	Read and complete "Packets of Plants" student booklet to identify parts of a plant and the functions of each	<u>riower Garden</u>	
	Read <u>Plants We Eat</u> and discuss the plants in the story, and which part each is	Packets of Plants	
	Look at a variety of plants and identify each part	Plants We Eat	
		 Various edible parts of plants 	

Unit: Life Science: Plants

Content Standard: Analyze the needs of people and factors affecting the availability of renewable and nonrenewable resources.

State Curriculum Standard: 4.2.4 Renewable and Non renewable Resources

Course Content	Student Performance	Resources	Assessments
A 11 ('C 1 1 1 1	 After viewing video, The Importance of Plants, discuss the why plants are important Plants 3.3.4 B Farm 4.4.4 C 	Video: The Importance of Plants Plants 3.3.4 B Farm 4.4.4 C	Student discussion

Unit: Earth Science: Seasons

Content Standard: Integrate the fundamental concepts of science and technology; motion in force, energy, structure of matter, change over time, and simple machines.

State Curriculum Standard: 3.1.4 Unifying Themes

Course Content	Student Performance	Resources	Assessments
 A. Illustrate patterns that regularly occur and reoccur in nature. Use knowledge of natural patterns to predict next occurrences (eg, seasons, leaf patterns, lunar phases). 	 Sing songs to identify: Days of the week Months of the year Four seasons 	Dr. Jean & Friends CD, CD player	Teacher observations
B. Recognize change in natural physical systems. • Examine and explain change by using time and measurement.	 Name: Seven days of the week Twelve months of the year Four seasons 	Scott Foresman/Addison Wesley Mathematics Teacher Edition: Chapter 7	Chapter 7 Assessment

Unit: Earth Science: Seasons

Content Standard: Apply the scientific process to solve real life problems.

Course Content	Student Performance	Resources	Assessments
A. Describe objects in the world using the five senses.			Teacher observations
Recognize observational descriptors from each of the five senses (e.g., see-blue, feel-rough).	 After reading <u>The Five</u> <u>Senses</u>, identify the five senses After taking a walk during each season identify sights, sounds, smells, and different 	The Five Senses by Aliki	Student discussion
	textures of that season List foods associated with each seasons	Food picture cards or real foods	
 Use observations to develop a descriptive vocabulary. 	After returning from season walk record observations	Chart paper	

Unit: Earth Science: Seasons

Content Standard: Apply the scientific process to solve real life problems.

Course Content	Student Performance	Resources	Assessments
 B. Recognize and use the elements of scientific inquiry to solve problems. Generate questions about objects, organisms and /or events that can investigations. Design an investigation. Conduct an experiment. State a conclusion that is consistent with the information. 	 Use the scientific process to complete the following experiments: Fall: Leaf Color Change Winter: Snow Melt Spring: How strong is the Wind? Summer: Heat Absorption 	 Leaf Color Change Snow Melt How Strong is the Wind: Teacher's Edition pp. 128 - 129 Heat Absorption 	Teacher observations

Unit: Earth Science: Seasons

Content Standard: Use principles from physical sciences, geography, and mathematics to study the forces of nature that build the earth and wear down the earth.

State Curriculum Standard: 3.5.4 Earth Sciences

Course Content	Student Performance	Resources	Assessments
 A. Know basic weather elements. Identify weather patterns from data charts: Temperature Wind Direction Speed Precipitation Graph of the data. 	 Create a Seasons concept map to establish student's background knowledge of the four seasons After reading Weather and Seasons name four seasons and characteristics of each Identify particular weather patterns associated with each seasons 	 Chart paper Teacher's Edition p. 100 Science Reader: Weather and Seasons Teacher's Edition Pages 100 -116 Science Songs CD "Fun in the Weather" 	 Chapter 5 Test – Pp. 11-12 Performance Assessment- Teacher's Edition p. 121C Activity Flip Chart: Chapter 5 – Activity 2 Teacher observations
 Explain how the different seasons affect: Plant Animals Food availability Daily human life. 	 Use Rigby Seasonal Big Books to discuss the effects weather has on: Plants Animals Humans 	 Autumn by Pauline Cartwright Winter by Pauline Cartwright Spring by Pauline Cartwright Summer by Pauline Cartwright 	

Unit: Earth Science: Seasons

Content Standard: Select appropriate technological tools to collect, analyze, and communicate information and ideas.

State Curriculum Standard: 3.7.4 Technological Devices

Course Content	Student Performance	Resources	Assessments
 A. Explore the use of basic tool, simple, materials and techniques to safely solve problems. Select tools and materials to solve simple problems. Safely apply appropriate tools and materials to solve simple problems. 	Seasons: 3.2.4 B	Seasons: 3.2.4 B	Teacher observations
 B. Select appropriate instruments to study materials. • Explain appropriate instrument selection for specific tasks. 	 Through discussion and trial and error: Identify tools needed to complete experiments Justify selection 	Various science tools such as thermometers, magnifying glasses	Student discussion

Unit: Earth Science: Our Earth, Our Home

Content Standard: Describe living things, their appearance, different types of life, the scope of their similarities and differences, where and how life changed over time.

State Curriculum Standard: 3.5.4 Earth Sciences

 A. Describe the composition and structure of the universe and the earth's place in the solar system. Recognize that Earth is one of the planets in the solar system Reference materials from building library Teacher observations

Unit: Earth Science: Our Earth, Our Home

Content Standard: Use principles from physical sciences, geography, and mathematics to study the forces of nature that build the earth and wear down the earth.

State Curriculum Standard: 3.5.4 Earth Sciences

Course Content	Student Performance	Resources	Assessments
 A. Know basic landforms and earth history. Identify various earth structures through the use of models. 	Know that the surface of the Earth is composed of different types of solid materials (for example, sound, pebbles, rocks, clumps of dirt)	 Teacher Edition pp. 78 -83 and 86-89 Workbook pp. 29 and 30 	 Complete <u>Earth's Land.</u> Complete <u>Earth's Landforms</u> Teacher observations Student discussion
B. Recognize the earth's different water resources. • Know that approximately three-fourths of the earth is covered by water.	 Use a globe to: Observe land and water parts of the earth's surface Discuss parts of the earth's surface Compare land and water parts of the earth's surface Play Globe Beach Ball to identify land and water on earth's surface 	Globe Beach Ball	Teacher observations Student discussion

Unit: Earth Science: Our Earth, Our Home

Content Standard: Identify and explain the living and nonliving characteristics of water environments.

State Curriculum Standard: 4.1.4 Watersheds and Wetlands

Course Content	Student Performance	Resources	Assessments
A. Identify various types of	Recognize oceans, lakes,	Teacher's Edition – pp. 92-	Complete <u>Earth's Water</u>
water environments.	and rivers water	93	
 Identify the Lotic system. 	environments	Workbook page 32	 Teacher observations
			Student discussion

Unit: Earth Science: Our Home, Our Earth

Content Standard: Analyze the needs of people and factors affecting the availability of renewable and nonrenewable resources.

State Curriculum Standard: 4.2.4 Renewable and Nonrenewable resources

Course Content	Student Performance	Resources	Assessments
 A. Identify needs of people. Identify how the environment provides for the needs of people. 	Use a graphic organizer to list people's needs and how the environment provides them	Teacher's Edition – pp. EMiv or EMv, marker	Teacher observationsStudent discussion
 Identify as natural resources: Plants Animals Water Air Minerals Fossils Fuels. 	Identify and discuss the importance of natural resources	 Pictures or physical examples of the sun, water, wood and air "Natural Resources Shield" 	 Complete "Natural Resources Shield" Student discussion
B. Know that some natural resources have limited life spans. Identify various means of conserving natural resources.	 Read and discuss <u>Taking</u> <u>Care of the Earth</u> then make a class mural or collage titled "Saving Our Natural Resources" Complete conservation experiment(s) to understand importance of conserving resources 	 Taking Care of the Earth by Billy Goodman Magazines Are There Enough Peanuts Part A and B? Is The Earth The Apple Of Your Eye? 	 Student discussion Teacher observations

Unit: Earth Science: Our Home, Our Earth

Content Standard: Analyze the needs of people and factors affecting the availability of renewable and nonrenewable resources.

State Curriculum Standard: 4.2.4. Renewable and Nonrenewable Resources

Course Content	Student Performance	Resources	Assessments
 C. Identify by-products and their use of natural resources. Identify items that: Can be recycled Cannot be recycled. 	 Sort various items into groups: Can be recycled Cannot be recycled 	Groups of objects that can and cannot be recycled	Teacher observations
Identify use of reusable products.	List items Discuss ways that they can be reused such a can for a pencil holder	 Chart paper, markers Recyclable Materials Symbol Search What is Recycling? Reasons to Recycle Ways You Can Reuse and Recycle Recycle and Reuse 	Complete Recycle and Reuse
Identify the use of compost, landfills, and incinerators.	 After reading Where Does the Garbage Go? Identify a landfill as an enormous hole where garbage is dumped and buried 	 Where Does The Garbage Go? By Let Your Trash Can Overflow Looking At Trash Mini Landfills Take a Garbage Poll What Do You Throw Away? A Garbage Poll 	

Unit: Earth Science: Our Earth, Our Home

Content Standard: Analyze the needs of people and factors affecting the availability of renewable and nonrenewable resources.

State Curriculum Standard: 4.3.4 Environmental Health

Course Content	Student Performance	Resources	Assessments
 A. Identify how human actions affect environmental health. Identify pollutants. Identify sources of pollution. Identify litter and its effect on environment. Describe how people can reduce pollution. 	 Brainstorm of complete graphic organizer Lists types of pollutants Pollutants' sources Ways they can reduce pollution 	 Graphic organizer, marker Pollution in Our Neighborhood 	 Pollution in Our Neighborhood Student discussion Teacher observations
 B. Understand that the elements of natural systems are interdependent. Identify the effects of a healthy environment on the ecosystem. 	Draw a picture or paint a mural that depicts a healthy environment	Paper, paint, crayons, markers	Student illustrations and discussion

Unit: Earth Science: Our Earth, Our Home

Content Standard: Identify the biological requirements of humans, and analyze the relationship between the use of natural resources and society's needs.

State Curriculum Standard: 4.8.4 Humans and the Environment

Course Content	Student Performance	Resources	Assessments
 A. Identify the biological requirements of humans. Identify several ways that people use natural resources. 	After viewing <u>Learning About Natural Resources</u> , create a class web to identify natural resources and ways people use them	Video: "Learning About Natural Resources"	Student discussion
 B. Know the importance of natural resources in daily life. Identify items used in daily life that come from natural resources. Identify ways to conserve our natural resources. 			

Unit: Earth Science: Our Earth, Our Home

Content Standard: Identify the biological requirements of humans, and analyze the relationship between the use of natural resources and society's needs.

State Curriculum Standard: 4.8.4 Humans and the Environment

Course Content	Student Performance	Resources	Assessments
A. Explain how human activities may change the environment. Identify everyday human activities and how they affect the environment.	 Brainstorm list of daily activities that affect the environment Use scientific process to complete one or more of the following experiments Catching pollution Fossil fuels Smoking machine Fried fish Cleaning oil spills Away with waste 	Chart paper Our Earth, Our Home resource section of Activity Sheets Booklet	Student discussion

Unit: Earth Science: Our Earth, Our Home

Content Standard: Identify and describe environmental laws and regulations.

State Curriculum Standard: 4.9.4 Environmental Laws and Regulations

 A. Know that there are laws and regulations for the environment. After visiting the Twin Boro Recycling Center Discuss why the center Explain how the recycling After visiting the Twin Boro Recycling Center Science Songs Science Songs 	Course Content	ent Student Performance	Resources	Assessments
law impacts the school and home. How recycling is handled in our homes and school	 A. Know that there are laws and regulations for the environment. Explain how the recycling law impacts the school 	 After visiting the Twin Boro Recycling Center: Discuss why the center exists (state law) How recycling is handle 	Twin Boro Recycling Center Science Songs	

Unit: Earth Science: Our Earth, Our Home

Content Standard: Describe and evaluate how human actions affect environmental health issues.

State Curriculum Standard: 4.3.4 Environmental Health

Course Content	Student Performance	Resources	Assessments
 A. Know that plants, animals and humans are dependent on air and water. Identify different areas where health can be affected by air, water, or land pollution. 	After reading <u>Just A Dream</u> , identify the areas of Walter's environment that were affected by air, water, and land pollution	Just A Dream by Chris Van Allsburg	Student discussionTeacher observations
Identify actions that can prevent or reduce waste pollution.	After reading <u>Just A Dream</u> , list actions that can be taken to prevent or reduce waste and pollution	Just A Dream by Chris Van Allsburg	

Unit: Earth Science: Our Earth, Our Home

Content Standard: Describe the biological diversity of an ecosystem and explain how natural and human actions cause the loss of species.

State Curriculum Standard: 4.7.4 Threatened, Endangered and Extinct Species

Course Content	Student Performance	Resources	Assessments
 A. Define and understand extinction. Identify plants and animals that are extinct. Explain why some plants and animals are extinct. 	 Read and discuss <u>EarthSong</u> Then place story animal cards on the world map to show that animals are being affected across the world Read <u>Will We Miss Them? Endangered Species.</u> Discuss reasons for endangerment 	EarthSong by Sally Rogers Will We Miss Them? Endangered Species by Alexandra Wright Alexandra Wright	Teacher observations Student discussion

Unit: Physical Science: Matter

Content Standard: Investigate the structure and properties of objects.

State Curriculum Standard: 3.4.4 Physical Science, Chemistry and Physics

Course Content	Student Performance	Resources	Assessments
A. Recognize basic concepts about the structure and properties of matter.	 Read <u>Matter</u> and identify the three states of matter Name and categorize 	 <u>Matter</u> Independent Practice Reader Variety of classroom objects 	Student discussion
 Know different material characteristics (e.g., texture, state of matter, solubility). 	 classroom objects by states of matter After viewing <u>Properties of Matter: Part One</u> name the states of matter 	Videos: "Properties of Matter: Part One and Part Two"	Teacher observations
 Describe properties of matter (e.g., hardness, reactions to simple chemical tests). 	Identify the properties of a solid, liquid, and gas	 Teacher's Edition: Chapter 6 pages 147-151 Workbook pages 51-53 Worksheet Solid, Liquid, Gas 	
Know that combining two or more substances can make new materials with different properties.	 Use the scientific process to complete one or more of the following matter experiments It's A Gas In the Bag Ice Melts Does Matter Take Up Space? Can Matter Change? 	Matter resource section of Activity Sheets Book.	On sheet of paper divided and labeled Solid, Liquid, Gas, children draw or glue a picture of each state of matter