

## PLANNED COURSE

**SUBJECT AREA:** Environment and Ecology

**GRADE/COURSE:** 3

**Standard And Strand** 4.1 Watersheds and Wetlands

OBJECTIVES	PERFORMANCE INDICATORS	ASSESSMENTS (Variety as per Section 4.52, Chapter 4)
<p>A. Identify various types of water environments.</p> <p>B. Explain the difference between moving and still water.</p> <p>C. Identify living things found in water environments.</p> <p>D. Identify a wetland and the plants and animals found there.</p> <p>E. Understand that watersheds and wetlands are important for animals and plants.</p>	<p>Identify creeks, rivers, streams.</p> <p>Identify ponds, lakes, swamps.</p> <p>Identify rain, sleet, hail and snow.</p> <p>Identify fish, mammals, insects and amphibians found in water.</p> <p>Identify water lily, kelp and algae.</p> <p>Identify different kinds of wetlands.</p> <p>Identify plants and animals found in wetlands.</p> <p>Recognize that watersheds are important for plants and animals.</p>	<p><b>*More specific assessments will be designed upon purchase of new science materials.</b></p>

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**Standard And Strand** 4.2 Renewable and Non-Renewable Resources

<b>OBJECTIVES</b>	<b>PERFORMANCE INDICATORS</b>	<b>ASSESSMENTS (Variety as per Section 4.52, Chapter 4)</b>
<p>A. Identify things found in nature that people need to survive.</p> <p>B. Identify some products from natural resources.</p> <p>C. Realize that some natural resources are finite.</p>	<p>Identify natural resources, such as air, water, plants, animals and minerals.</p> <p>Know the interdependence of plants and animals.</p> <p>Know the water cycle.</p> <p>Identify some products made from trees.</p> <p>Identify some products made from plants and animals.</p> <p>Identify the source of some man-made materials.</p> <p>Know the difference between renewable and non-renewable resources.</p> <p>Know various means of conservation of natural resources.</p>	<p><b>*More specific assessments will be designed upon purchase of new science materials.</b></p>

<b>OBJECTIVES</b>	<b>PERFORMANCE INDICATORS</b>	<b>ASSESSMENTS (Variety as per Section 4.52, Chapter 4)</b>
D. Know that some products can be recycled.	Identify products that can be recycled (glass, plastics, paper).  Recognize the recyclable symbol.	

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Standard And Strand 4.3 Environmental Health

OBJECTIVES	PERFORMANCE INDICATORS	ASSESSMENTS (Variety as per Section 4.52, Chapter 4)
<p>A. Know that plants, animals and humans depend on air and water for survival.</p>          <p>B. Identify how humans affect the environment.</p>	<p>Know that all living things need air and water to survive.</p> <p>Identify ways that air, water and land can be polluted.</p> <p>Know that pollution can cause sickness.</p> <p>Know ways to reduce or prevent pollution.</p> <p>Identify some sources of pollution.</p> <p>Explain the effects of litter on the environment.</p>	<p><b>*More specific assessments will be designed upon purchase of new science materials.</b></p>

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**Standard And Strand** 4.4 Agriculture and Society

<b>OBJECTIVES</b>	<b>PERFORMANCE INDICATORS</b>	<b>ASSESSMENTS (Variety as per Section 4.52, Chapter 4)</b>
<p>A. Know the importance of agriculture to humans.</p> <p>B. Identify common plants and animals found on Pennsylvania farms.</p> <p>C. Know that food comes from plants and animals found on farms.</p> <p>D. Identify technology associated with agriculture.</p>	<p>Know how people depend on agriculture for food and clothing.</p> <p>Identify common animals found on Pennsylvania farms.</p> <p>Identify common animals found on Pennsylvania farms.</p> <p>Identify some food products that come from plants and animals found on farms.</p> <p>Identify local farm products.</p> <p>Describe the journey of a farm product from source to consumer.</p> <p>Identify simple farm tools.</p> <p>Identify common farm machinery.</p>	<p><b>*More specific assessments will be designed upon purchase of new science materials.</b></p>

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**Standard And Strand** 4.5 Integrated Pest Management

<b>OBJECTIVES</b>	<b>PERFORMANCE INDICATORS</b>	<b>ASSESSMENTS (Variety as per Section 4.52, Chapter 4)</b>
A. Know that pests help control the balance of nature.  B. Know that it is important that we have pest control.	Know that pests are important to the food chain.  Know some reasons why people control pests.  Identify some ways to control pests.  Identify warning signs on chemical labels (e.g., caution, poison).	<b>*More specific assessments will be designed upon purchase of new science materials.</b>

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**Standard And Strand** 4.6 Ecosystems and Their Interactions

<b>OBJECTIVES</b>	<b>PERFORMANCE INDICATORS</b>	<b>ASSESSMENTS (Variety as per Section 4.52, Chapter 4)</b>
<p>A. Know that living things are dependent on non-living things in the environment for survival.</p>           <p>B. Understand the concept of cycles.</p>	<p>Identify living and non living things.</p> <p>Describe the basic needs of a plant.</p> <p>Describe the basic needs of an animal.</p> <p>Identify things that affect plant growth.</p> <p>Describe how animals interact with plants to meet their needs.</p> <p>Describe a food chain.</p> <p>Explain the water cycle.</p>	<p><b>*More specific assessments will be designed upon purchase of new science materials.</b></p>

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**Standard And Strand** 4.7 Threatened, Endangered and Extinct Species

<b>OBJECTIVES</b>	<b>PERFORMANCE INDICATORS</b>	<b>ASSESSMENTS (Variety as per Section 4.52, Chapter 4)</b>
<p>A. Identify differences in living things.</p> <p>B. Know that animals change to survive.</p>	<p>Know that plants and animals have different colors, shapes, and sizes for their survival.</p> <p>Know that the four elements in a habitat are essential for survival.</p> <p>Identify local plants or animals and describe their habitat.</p> <p>Identify changes that can help a living organism to survive.</p> <p>Explain what happens to a living thing when its food, water, shelter or space is changed.</p>	<p><b>*More specific assessments will be designed upon purchase of new science materials.</b></p>



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**Standard And Strand** 4.8 Humans and the Environment

<b>OBJECTIVES</b>	<b>PERFORMANCE INDICATORS</b>	<b>ASSESSMENTS (Variety as per Section 4.52, Chapter 4)</b>
A. Identify what people need to live.  B. Know that the environment influences where and how people live.  C. Explain how people’s activities can change the environment.  D. Know the importance of natural resources in daily life.	Identify natural resources that people need to survive.  Explain how people use natural resources.  Understand the influence of climate on how and where people live.  Explain how everyday activities of people affect their environment.  Identify things used in everyday life that come from natural resources.  Understand the importance of conserving our natural resources.	<b>*More specific assessments will be designed upon purchase of new science materials.</b>

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**Standard And Strand** 4.9 Environmental Laws and Regulations

<b>OBJECTIVES</b>	<b>PERFORMANCE INDICATORS</b>	<b>ASSESSMENTS (Variety as per Section 4.52, Chapter 4)</b>
A. Know that there are laws and regulations for the environment.	Know that there are environmental laws.  Know how people recycle at home and school.	<b>*More specific assessments will be designed upon purchase of new science materials.</b>