

# WONDERS OF WETLANDS

## ACTIVITY MATRIX

ACTIVITY	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	Other Standards
<a href="#">Introducing Wetlands</a>	4.D 7.D							7.A			4.A 4.B							1.2.5.A 1.4.5.B 1.8.5.B 7.4.6.A 9.1.5.B
<a href="#">Let the Cattail Out of the Bag!</a>	4.D										4.B							
<a href="#">Wetlands in the Classroom!</a>	4.D 7.D		4.C			4.A	7.A					7.A						1.6.5.C 9.1.5.B
<a href="#">Wetlands Metaphors</a>	7.D 10. D																	1.6.8.D
<a href="#">Wetlands Habitats</a>	7.D									7.C								1.1.8.D
<a href="#">Wetlands Weirdos</a>						7.A	7.A 7.B				7.B	7.A						1.1.8.G
<a href="#">Whose Clues?</a>						4.A					4.A 4.C							
<a href="#">Marsh Market</a>		7.A	7.			7.A	7.B 7.			7.E	7.B							
<a href="#">Wet n' Wild</a>	4.C 4.D					4.A	4.A					4.A						7.1.3.A 9.1.5.B
<a href="#">The Wetland Gourmet</a>	7.B	7.A																
<a href="#">Marsh Mystery</a>			7.A 7.B					7.D			7.B 7.D							1.1.8.G 10.2.6.E
<a href="#">Treatment Plants</a>	7.D 7.E										7.B							
<a href="#">This Plant Key is All Wet</a>	7.D									7.C		7.A						1.1.8.G
<a href="#">Wetland Wheel</a>	7.D									7.C								9.1.8.B
<a href="#">Tracking Plants and Keeping Track</a>	7.D					7.C	7.A			7.C								2.6.8.D
<a href="#">Run for the Border</a>	7.D					7.A	7.A	7.D		7.C	7.A 7.B							
<a href="#">Wetland Address</a>	7.D					7.A	7.A					7.A 7.D						1.1.5.G 1.1.8.G

																		7.1.6.B
<a href="#">Life in the Fast Lane</a>	7.D 7.E					7.A 7.C				7.A 7.B	7.A					7.B		1.4.8.B 2.3.5.B
<a href="#">A Drop in the Bucket</a>		4.A 7.C						7.A						4.D				2.2.8.B 2.3.5.A,B,D 2.4.3.A,B 7.2.6.A
<a href="#">Soak It Up!</a>	7.B 7.D 7.E								7.B	7.B								7.2.6.B
<a href="#">Salt Marsh Players</a>	7.C 7.D					7.A	7.A				7.A			7.D				1.1.5.G,H 1.4.5.A 9.1.5.B
<a href="#">Water We Have Here?</a>	10. E 12. C		10. B							10. A 10. D						10. B		
<a href="#">Nutrients: Nutrition or Nuisance?</a>	7.B 7.D					4.A		4.C			4.A							
<a href="#">Marsh Munchies</a>		7.B				7.A												2.2.5.A 10.1.6.C 11.3.6.E
<a href="#">Recipe for Trouble</a>	7.D		7.B				7.B	7.D			7.B			7.D				
<a href="#">Water Under Foot</a>	10. B 10. D		10. B 12. A						10. B	10. D				10. D				
<a href="#">Runoff Race</a>	10. B 10. D		10. B						10. B					10. D				
<a href="#">Wetland in a Pan</a>	10. B 10. D								10. B					10. D				
<a href="#">Water Purifiers</a>	10. B 10. D		10. A						10. B	10. B				10. D				2.2.11.A
<a href="#">Over Hill and Dale</a>	7.B 10. B 10.													10. A	10. D			7.1.6.A 7.2.6.A 7.1.9.A 7.1.9.B

	E																	
<a href="#">Nature's Recyclers</a>						4.A 7.A								4.A				
<a href="#">Do You Dig Wetland Soil?</a>	7.B 7.D			7.B		7.A			7.C	7.B				4.B				
<a href="#">How Thirsty is the Ground?</a>	7.B 7.D			7.B						7.B								2.2.8.B 2.3.8.B
<a href="#">A Rottin Experiment</a>	7.D	7.D		7.C		7.A			7.B	7.B								2.6.5.A
<a href="#">Nature's Filter</a>	7.D 7.E									7.B								
<a href="#">Hear Ye! Hear Ye!</a>	10. E							10. C	10. A									1.6.8.A,D 5.2.9.C 9.1.8.B
<a href="#">Hydropoly</a>	10. E		7.B					7.D 10. C										
<a href="#">People of the Bog</a>	7.D	7.D				7.A			7.B	7.B								
<a href="#">Regulation Rummy</a>									10. A 12. A									5.3.9.D
<a href="#">What a Boat!</a>	4.D	4.A						4.D		4.B	4.D							7.3.3.B 9.1.3.B
<a href="#">Chrysti the Wordsmith on Wetlands</a>	7.D																	1.7.8.A 1.8.8.B 7.3.9.B
<a href="#">Wetland Tradeoffs</a>	10. D 12. E					12. C		10. C		12. D								1.6.11.D 1.8.11.B 5.2.12.C 6.3.12.B
<a href="#">Helping Wetland Habitats</a>	12. E					12. C		10. C		12. D						10. B		1.4.8.B 1.4.11.B

**Standard(s):** Environment and Ecology: 4.1.4.D  
 4.1.7.D, 4.8.7.A  
 Science and Technology: 3.2.4.A, 3.2.4.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Introducing Wetlands  (Multiple activities – Education Standards, Teaching Strategies, and Multiple Intelligences vary)	<p><i>Watersheds and Wetlands</i> 4.1.4.D</p> <ul style="list-style-type: none"> <li>▪ Identify different kinds of wetlands.</li> <li>▪ Identify plants and animals found in wetlands.</li> </ul> <p>4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Recognize the common types of plants and animals.</li> <li>▪ Describe different types of wetlands.</li> </ul> <p><i>Humans and the Environment</i> 4.8.7.A</p> <ul style="list-style-type: none"> <li>▪ Compare and contrast how people use natural resources throughout the world.</li> </ul>	<p><i>Inquiry and Design</i> 3.2.4.A</p> <ul style="list-style-type: none"> <li>▪ Distinguish between a scientific fact and a belief.</li> <li>▪ Relate how new information can change existing perceptions.</li> </ul> <p>3.2.4.B</p> <ul style="list-style-type: none"> <li>▪ Recognize observational descriptors from each of the five senses.</li> </ul>	<p>Geography <i>The Interactions Between People and Places</i> 7.4.6.A</p> <p>Arts and Humanities <i>Production, Performance and Exhibition of Dance, Music, Theatre, and Visual Arts</i> 9.1.5.B</p> <p>Reading, Writing, Speaking and Listening <i>Reading Critically in All Content Areas</i> 1.2.5.A. <i>Types of Writing</i> 1.4.5.B. <i>Research</i> 1.8.5.B</p>	Art Form Brainstorm Discovery Hands-on Listening Observation Research Sensory Writing	Verbal/Linguistic Logical/Mathematical Visual/Spatial Musical/Rhythmic Naturalist Interpersonal Intrapersonal	

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**Standard(s):** Environment and Ecology: 4.1.4.C  
 Science and Technology: 3.2.4.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Let the Cattail Out of the Bag!	<i>Watersheds and Wetlands</i> 4.1.4.D <ul style="list-style-type: none"> <li>▪ Identify different kinds of wetlands.</li> <li>▪ Identify plants and animals found in wetlands.</li> </ul>	<i>Inquiry and Design</i> 3.2.4.B <ul style="list-style-type: none"> <li>▪ Recognize observational descriptors from each of the five senses.</li> <li>▪ Use observations to develop a descriptive vocabulary.</li> </ul>		Hands-on Observation Sensory	Verbal/Linguistic Visual/Spatial Naturalist	

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**Standard(s):** Environment and Ecology: 4.1.4.D, 4.3.4.C, 4.6.4.A  
 4.1.7.D, 4.7.7.A  
 Science and Technology: 3.3.7.A

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Wetlands in the Classroom!	<p><i>Watersheds and Wetlands</i> 4.1.4.D</p> <ul style="list-style-type: none"> <li>▪ Identify different kinds of wetlands.</li> <li>▪ Identify plants and animals found in wetlands.</li> <li>▪ Explain wetlands as habitats for plants and animals.</li> </ul> <p>4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> <li>▪ Recognize the common types of plants and animals.</li> <li>▪ Describe different types of wetlands.</li> </ul> <p><i>Environmental Health</i> 4.3.4.C</p> <ul style="list-style-type: none"> <li>▪ Identify some of the organisms that live together in an ecosystem.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.4.A</p> <ul style="list-style-type: none"> <li>▪ Identify a simple ecosystem and its living and nonliving components.</li> </ul> <p><i>Threatened, Endangered</i></p>	<p><i>Biological Science</i> 3.3.7.A</p> <ul style="list-style-type: none"> <li>▪ Describe how the structures of living things help them function in unique ways.</li> <li>▪ Account for adaptations among organisms that live in a particular environment.</li> </ul>	<p>Arts and Humanities <i>Production, Performance and Exhibition of Dance, Music, Theatre, and Visual Arts</i> 9.1.5.B</p> <p>Reading, Writing, Speaking and Listening <i>Speaking and Listening</i> 1.6.5.C</p>	<p>Art Form Hands-on Research Model</p>	<p>Verbal/Linguistic Visual/Spatial Naturalist</p>	

*and Extinct Species*

4.7.7.A

- Select an ecosystem and describe different plants and animals that live there.

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D  
4.1.10.D  
Science and Technology:

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Wetland Metaphors	<i>Watersheds and Wetlands</i> 4.1.7.D ▪ Describe the different functions of a wetland. 4.1.10.D ▪ Describe wetlands in terms of their effects (e.g. habitat, flood, buffer zones, prevention areas, nurseries, food production areas).		Reading, Writing, Speaking and Listening <i>Speaking and Listening</i> 1.6.8.D	Classification Simulation Small group	Verbal/Linguistic Visual/Spatial Naturalist	



## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D  
 Science and Technology: 3.1.7.C

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Wetland Habitats	<i>Watersheds and Wetlands</i> 4.1.7.D <ul style="list-style-type: none"> <li>▪ Describe different types of wetlands.</li> <li>▪ Identify specific characteristics of wetland plants and soils.</li> </ul>	<i>Unifying Themes</i> 3.1.7.C <ul style="list-style-type: none"> <li>▪ Identify different forms of patterns and use them to group and classify specific objects.</li> <li>▪ Identify repeating structure patterns.</li> </ul>	Reading, Writing, Speaking and Listening <i>Learning to Read Independently</i> 1.1.8.D	Analyzing Classification Comparison Identification Reading	Verbal/Linguistic Logical/Mathematical Naturalist	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.6.7.A, 4.7.7.A, 4.7.7.B  
 Science and Technology: 3.2.7.B, 3.3.7.A

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Wetland Weirdos	<p><i>Ecosystems and their Interactions</i> 4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Describe and explain the adaptations of plants and animals to their environment.</li> </ul> <p><i>Threatened, Endangered and Extinct Species</i> 4.7.7.A</p> <ul style="list-style-type: none"> <li>▪ Identify adaptations in plants and animals.</li> </ul> <p>4.7.7.B</p> <ul style="list-style-type: none"> <li>▪ Explain how an adaptation is an inherited structure or behavior that helps and organism survive and reproduce.</li> </ul>	<p><i>Inquiry and Design</i> 3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> </ul> <p><i>Biological Sciences</i> 3.3.7.A</p> <ul style="list-style-type: none"> <li>▪ Describe how the structures of living things help them function in unique ways.</li> <li>▪ Account for adaptations among organisms that live in a particular environment.</li> </ul>	<p>Reading, Writing, Speaking and Listening <i>Learning to Read Independently</i> 1.1.8.G</p>	<p>Data collection Hands-on Investigation Observation</p>	<p>Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.4.C, 4.1.4.D, 4.6.4.A, 4.7.4.A  
 Science and Technology: 3.3.4.A

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Wet 'n' Wild	<p><i>Watersheds and Wetlands</i> 4.1.4.C</p> <ul style="list-style-type: none"> <li>▪ Identify fish, insects and amphibians that are found in fresh water.</li> </ul> <p>4.1.4.D</p> <ul style="list-style-type: none"> <li>▪ Identify plants and animals found in wetlands.</li> <li>▪ Explain wetlands as habitats for plants and animals.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.4.A</p> <ul style="list-style-type: none"> <li>▪ Identify plants and animals with their habitat and food sources.</li> <li>▪ Identify a local ecosystem and its living and nonliving components.</li> </ul> <p><i>Threatened, Endangered and Extinct Species</i> 4.7.4.A</p> <ul style="list-style-type: none"> <li>▪ Explain why plants and animals are different colors, shapes and sizes and how these differences relate to their survival.</li> <li>▪ Explain why each of the four elements in a habitat is essential for survival.</li> </ul>	<p><i>Biological Sciences</i> 3.3.4.A</p> <ul style="list-style-type: none"> <li>▪ Know that some organisms have similar external characteristics and that similarities and differences are related to environmental habitat.</li> <li>▪ Describe the basic needs of plants and animals.</li> </ul>	<p>Arts and Humanities <i>Production, Performance and Exhibition of Dance, Music, Theatre, and Visual Arts</i> 9.1.5.B</p> <p>Geography <i>Basic Geographic Literacy</i> 7.1.3.A</p>	<p>Classification Data collection Hands-on Identification Investigation</p>	<p>Verbal/Linguistic Visual/Spatial Naturalist</p>	

	<ul style="list-style-type: none"><li>Identify local plants or animals and describe their habitat.</li></ul>					
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## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.6.4.A  
 Science and Technology: 3.2.4.A

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Whose Clues?	<p><i>Ecosystems and their Interactions</i>            4.6.4.A</p> <ul style="list-style-type: none"> <li>▪ Identify plants and animals with their habitat and food sources.</li> <li>▪ Identify a local ecosystem and its living and nonliving components.</li> </ul>	<p><i>Inquiry and Design</i>            3.2.4.A</p> <ul style="list-style-type: none"> <li>▪ Provide clear explanations that account for observations and results.</li> </ul> <p>3.2.4.C</p> <ul style="list-style-type: none"> <li>▪ Generate questions about objects, organisms and/or events that can be answered through scientific investigations.</li> <li>▪ Design an investigation.</li> </ul>		Brainstorm Discovery Hands-on Investigation Identification	Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.2.7.A, 4.3.7.C, 4.6.7.A, 4.7.7.B, 4.7.7.C  
 Science and Technology: 3.1.7.E, 3.2.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Marsh Market	<p><i>Renewable and Nonrenewable Resources</i> 4.2.7.A</p> <ul style="list-style-type: none"> <li>▪ Explain how plants and animals may be classified as natural resources.</li> <li>▪ Compare means of growing or acquiring food.</li> </ul> <p><i>Environmental Health</i> 4.3.7.C</p> <ul style="list-style-type: none"> <li>▪ Explain the complex, interactive relationships among members of an ecosystem.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Explain energy flow through a food web.</li> <li>▪ Identify niches for producers, consumers and decomposers within an ecosystem.</li> </ul> <p><i>Threatened, Endangered and Extinct Species</i> 4.7.7.B</p> <ul style="list-style-type: none"> <li>▪ Explain how living things respond to changes in their environment.</li> </ul> <p>4.7.7.C</p> <ul style="list-style-type: none"> <li>▪ Identify natural or</li> </ul>	<p><i>Unifying Themes</i> 3.1.7.E</p> <ul style="list-style-type: none"> <li>▪ Describe the effect of making a change in one part of a system on the system as a whole.</li> </ul> <p><i>Inquiry and Design</i> 3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> </ul>		Classification Simulation	Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist	

human impacts that cause habitat loss.

- Explain how habitat loss can affect the interaction among species and the population of a species.

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.B, 4.2.7.A  
 Science and Technology:

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
The Wetland Gourmet	<p><i>Watersheds and Wetlands</i> 4.1.7.B</p> <ul style="list-style-type: none"> <li>▪ Recognize the common types of plants and animals.</li> <li>▪ Describe the different functions of a wetland.</li> </ul> <p><i>Renewable and Nonrenewable Resources</i> 4.2.7.A</p> <ul style="list-style-type: none"> <li>▪ Identify resources used to provide humans with energy, food, housing, and water.</li> <li>▪ Compare means of growing or acquiring food.</li> </ul>			Discussion Hands-on	Verbal/Linguistic Logical/Mathematical Visual/Spatial	



## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.3.7.A, 4.3.7.B, 4.8.7.D  
 Science and Technology: 3.2.7.B, 3.2.7.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Marsh Mystery	<p><i>Environmental Health</i> 4.3.7.A</p> <ul style="list-style-type: none"> <li>▪ Describe different types of pest controls and their effects on environmental health.</li> </ul> <p>4.3.7.B</p> <ul style="list-style-type: none"> <li>▪ Identify land use practices and their relation to environmental health.</li> </ul> <p><i>Humans and the Environment</i> 4.8.7.D</p> <ul style="list-style-type: none"> <li>▪ Explain how human activities and natural events have affected ecosystems.</li> </ul>	<p><i>Inquiry and Design</i> 3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> </ul> <p>3.2.7.D</p> <ul style="list-style-type: none"> <li>▪ Define different types of problems.</li> <li>▪ Propose the best solution.</li> </ul>	<p>Reading, Writing, Speaking and Listening <i>Learning to Read Independently</i> 1.1.8.G</p> <p>Health, Safety and Physical Education <i>Healthful Living</i> 10.2.6.E</p>	<p>Discussion Problem Solving Reading Role Playing</p>	<p>Verbal/Linguistic Logical/Mathematical Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D, 4.1.7.E  
 Science and Technology: 3.2.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Treatment Plants	<p><i>Watersheds and Wetlands</i>            4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> <li>▪ Describe the different functions of a wetland.</li> </ul> <p>4.1.7.E</p> <ul style="list-style-type: none"> <li>▪ Explain the impact of watersheds and wetlands in flood control, wildlife habitats and pollution abatement.</li> </ul>	<p><i>Inquiry and Design</i>            3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> </ul>		Demonstration Discussion	Verbal/Linguistic Logical/Mathematical Visual/Spatial	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D  
 Science and Technology: 3.1.7.C, 3.3.7.A

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
This Plant Key Is All Wet	<p><i>Watersheds and Wetlands</i> 4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> <li>▪ Recognize the common types of plants and animals.</li> </ul>	<p><i>Unifying Themes</i> 3.1.7.C</p> <ul style="list-style-type: none"> <li>▪ Identify different forms of patterns and use them to group and classify specific objects.</li> <li>▪ Identify repeating structure patterns.</li> </ul> <p><i>Biological Sciences</i> 3.3.7.A</p> <ul style="list-style-type: none"> <li>▪ Explain how to use a dichotomous key to identify plants and animals.</li> </ul>	<p>Reading, Writing, Speaking and Listening <i>Learning to Read Independently</i></p>	<p>Classification Identification Observation</p>	<p>Verbal/Linguistic Logical/Mathematical Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D  
 Science and Technology: 3.1.7.C

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Wetland Wheel	<i>Watersheds and Wetlands</i> 4.1.7.D <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> <li>▪ Recognize the common types of plants and animals.</li> </ul>	<i>Unifying Themes</i> 3.1.7.C <ul style="list-style-type: none"> <li>▪ Identify different forms of patterns and use them to group and classify specific objects.</li> <li>▪ Identify repeating structure patterns.</li> </ul>	Arts and Humanities <i>Production, Performance and Exhibition of Dance, Music, Theatre, and Visual Arts</i> 9.1.8.B	Classification Hands-on Identification Observation	Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D, 4.6.7.C, 4.7.7.A  
 Science and Technology: 3.1.7.C

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Tracking Plants and Keeping Track	<p><i>Watersheds and Wetlands</i> 4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> <li>▪ Recognize the common types of plants and animals.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.7.C</p> <ul style="list-style-type: none"> <li>▪ Explain how ecosystems change.</li> </ul> <p><i>Threatened, Endangered and Extinct Species</i> 4.7.7.A</p> <ul style="list-style-type: none"> <li>▪ Select an ecosystem and describe different plants and animals that live there.</li> <li>▪ Understand levels of ecosystem organization (e.g., individuals, populations, species).</li> </ul>	<p><i>Unifying Themes</i> 3.1.7.C</p> <ul style="list-style-type: none"> <li>▪ Identify different forms of patterns and use them to group and classify specific objects.</li> <li>▪ Identify repeating structure patterns.</li> </ul>	<p>Mathematics <i>Statistics and Data Analysis</i> 2.6.8.D</p>	<p>Classification Data Collection Hands-on Identification Observation</p>	<p>Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D, 4.6.7.A, 4.7.7.A, 4.8.7.D  
 Science and Technology: 3.1.7.C, 3.2.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Run for the Border	<p><i>Watersheds and Wetlands</i> 4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> <li>▪ Recognize the common types of plants and animals.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Demonstrate the dependency of living components in the ecosystem on the nonliving components.</li> <li>▪ Explain energy flow through a foodweb.</li> </ul> <p><i>Threatened, Endangered and Extinct Species</i> 4.7.7.A</p> <ul style="list-style-type: none"> <li>▪ Select an ecosystem and describe different plants and animals that live there.</li> </ul> <p><i>Humans and the Environment</i> 4.8.7.D</p> <ul style="list-style-type: none"> <li>▪ Explain how human activities and natural events have affected ecosystems.</li> </ul>	<p><i>Unifying Themes</i> 3.1.7.C</p> <ul style="list-style-type: none"> <li>▪ Identify different forms of patterns and use them to group and classify specific objects.</li> <li>▪ Identify repeating structure patterns</li> </ul> <p><i>Inquiry and Design</i> 3.2.7.A</p> <ul style="list-style-type: none"> <li>▪ Answer “What if” questions based on observation, inference or prior knowledge or experience.</li> </ul> <p>3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> </ul>		Classification Data Collection Hands-on Investigation Observation	Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D, 4.6.7.A, 4.7.7.A  
 Science and Technology: 3.3.7.A, 3.3.7.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Wetland Address	<p><i>Watersheds and Wetlands</i> 4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Recognize the common types of plants and animals.</li> <li>▪ Describe different types of wetlands.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Describe and explain the adaptations of plants and animals to their environment.</li> </ul> <p><i>Threatened, Endangered and Extinct Species</i> 4.7.7.A</p> <ul style="list-style-type: none"> <li>▪ Select an ecosystem and describe different plants and animals that live there.</li> <li>▪ Identify adaptations in plants and animals.</li> </ul>	<p><i>Biological Sciences</i> 3.3.7.A</p> <ul style="list-style-type: none"> <li>▪ Describe how the structures of living things help them function in unique ways.</li> <li>▪ Account for adaptations among organisms that live in a particular environment.</li> </ul> <p>3.3.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify adaptations that allow organisms to survive in their environment.</li> </ul>	<p>Reading, Writing, Speaking and Listening <i>Learning to Read Independently</i> 1.1.5.G, 1.1.8.G <i>Research</i> 1.8.5.C</p> <p>Geography <i>Basic Geographic Literacy</i> 7.1.6.B</p>	<p>Gaming Identification Reading Research</p>	<p>Verbal/Linguistic Logical/Mathematical Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D, 4.1.7.E, 4.6.7.A, 4.6.7.C  
 Science and Technology: 3.2.7.A, 3.2.7.B, 3.3.7.A, 3.7.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Life in the Fast Lane	<p><i>Watersheds and Wetlands</i> 4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Describe different types of wetlands.</li> </ul> <p>4.1.7.E</p> <ul style="list-style-type: none"> <li>▪ Explain the impact of watersheds and wetlands in flood control, wildlife habitats, and pollution abatement.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Describe and explain the adaptations of plants and animals to their environment.</li> <li>▪ Demonstrate the dependency of living components in the ecosystem on the nonliving components.</li> <li>▪ Explain the importance of the predator/prey relationship and how it maintains the balances within ecosystems.</li> <li>▪ Understand limiting factors and predict their effects on an organism.</li> </ul> <p>4.6.7.C</p> <ul style="list-style-type: none"> <li>▪ Explain how ecosystems change.</li> </ul>	<p><i>Inquiry and Design</i> 3.2.7.A</p> <ul style="list-style-type: none"> <li>▪ Answer “What if” questions based on observation, inference or prior knowledge or experience.</li> </ul> <p>3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> </ul> <p><i>Biological Sciences</i> 3.3.7.A</p> <ul style="list-style-type: none"> <li>▪ Account for adaptations among organisms that live in a particular environment.</li> </ul> <p><i>Technological Devices</i> 3.7.7.B</p> <ul style="list-style-type: none"> <li>▪ Select appropriate instruments to measure the size, weight, shape and temperature of living and non-living objects.</li> <li>▪ Apply knowledge of different measurement systems to measure and record objects’ properties.</li> </ul>	<p>Mathematics <i>Measurement and Estimation</i> 2.3.5.B</p> <p>Reading, Writing, Speaking and Listening <i>Types of Writing</i> 1.4.8.B</p>	<p>Calculation Data Collection Gaming Hands-on Investigation Observation Role Playing</p>	<p>Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist</p>	



## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.2.4.A  
 4.2.7.C, 4.8.7.A  
 Science and Technology: 3.5.4.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
A Drop in the Bucket	<p><i>Renewable and Nonrenewable Resources</i>            4.2.4.A (K-2 Option)</p> <ul style="list-style-type: none"> <li>▪ Identify how the environment provides for the needs of people.</li> </ul> <p>4.2.7.C</p> <ul style="list-style-type: none"> <li>▪ Distinguish between readily available and less accessible resources.</li> </ul> <p><i>Humans and the Environment</i>            4.8.7.A</p> <ul style="list-style-type: none"> <li>▪ Locate and identify natural resources in different parts of the world.</li> </ul>	<p><i>Earth Sciences</i>            3.5.4.D (K-2 Option)</p> <ul style="list-style-type: none"> <li>▪ Know that approximately three-fourths of the earth is covered by water.</li> </ul>	<p>Mathematics  <i>Computation and Estimation</i>            2.2.8.B  <i>Measurement and Estimation</i>            2.3.5.A, 2.3.5.B            2.3.8.D  <i>Mathematical Reasoning and Connections</i>            2.4.3.A (K-2 Option)            2.4.5.B</p> <p>Geography  <i>The Physical Characteristics of Places and Regions</i>            7.2.6.A</p>	<p>Calculation            Demonstration</p>	<p>Verbal/Linguistic            Logical/Mathematical            Visual/Spatial</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.B, 4.1.7.D, 4.1.7.E  
 Science and Technology: 3.1.7.B, 3.2.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Soak It Up!	<p><i>Watersheds and Wetlands</i>            4.1.7.B</p> <ul style="list-style-type: none"> <li>▪ Explain factors that affect water quality and flow through a watershed.</li> </ul> <p>4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Describe the different functions of a wetland.</li> </ul> <p>4.1.7.E</p> <ul style="list-style-type: none"> <li>▪ Explain the influence of flooding on wetlands.</li> </ul>	<p><i>Unifying Themes</i>            3.1.7.B</p> <ul style="list-style-type: none"> <li>▪ Apply models to predict specific results and observations ( e.g., population growth, effects of infectious organisms).</li> </ul> <p><i>Inquiry and Design</i>            3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> </ul>	<p>Geography  <i>The Physical Characteristics of Places and Regions</i>            7.2.6.B</p>	<p>Demonstration Model</p>	<p>Visual/Spatial</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.C, 4.1.7.D, 4.6.7.A, 4.7.7.A  
 Science and Technology: 3.3.7.A, 3.5.7.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Salt Marsh Players	<p><i>Watersheds and Wetlands</i> 4.1.7.C</p> <ul style="list-style-type: none"> <li>▪ Explain how the physical components of aquatic systems influence the organisms that live there in terms of size, shape and physical adaptations.</li> </ul> <p>4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Recognize the common types of plants and animals.</li> <li>▪ Describe different types of wetlands.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Describe and explain the adaptations of plants and animals to their environment.</li> <li>▪ Demonstrate the dependency of living components in the ecosystem on the nonliving components.</li> <li>▪ Identify the relationship of abiotic and biotic components and explain their interaction in an ecosystem.</li> </ul> <p><i>Threatened, Endangered and Extinct Species</i></p>	<p><i>Biological Sciences</i> 3.3.7.A</p> <ul style="list-style-type: none"> <li>▪ Account for adaptations among organisms that live in a particular environment.</li> </ul> <p><i>Earth Sciences</i> 3.5.7.D</p> <ul style="list-style-type: none"> <li>▪ Compare the effect of water type and the life contained in them.</li> <li>▪ Identify ocean and shoreline features (e.g., bays, inlets, spit, tidal marshes).</li> </ul>	<p>Arts and Humanities <i>Production, Performance and Exhibition of Dance, Music, Theatre and Visual Arts</i> 9.1.5.B</p> <p>Reading, Writing, Speaking and Listening <i>Types of Writing</i> 1.4.5.A <i>Learning to Read Independently</i> 1.1.5.G, 1.1.5.H</p>	<p>Reading Role Playing Writing</p>	<p>Verbal/Linguistic Visual/Spatial Musical/Rhythmic Naturalist</p>	

4.7.7.A

- Select an ecosystem and describe different plants and animals that live there.
- Identify adaptations in plants and animals.

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.10.E, 4.3.10.B  
 4.1.12.C  
 Science and Technology: 3.2.10.A, 3.5.10.D, 3.7.10.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Water We Have Here?	<p><i>Watersheds and Wetlands</i> 4.1.12.C</p> <ul style="list-style-type: none"> <li>▪ Interpret physical, chemical and biological data as a means of assessing the environmental quality of a watershed.</li> </ul> <p>4.1.10.E</p> <ul style="list-style-type: none"> <li>▪ Describe how natural events affect a watershed.</li> <li>▪ Identify the effects of humans and human events on watersheds.</li> </ul> <p><i>Environmental Health</i> 4.3.10.B</p> <ul style="list-style-type: none"> <li>▪ Explain how human practices affect the quality of the water and soil.</li> </ul>	<p><i>Inquiry and Design</i> 3.2.10.A</p> <ul style="list-style-type: none"> <li>▪ Describe materials using precise quantitative and qualitative skills based on observations.</li> <li>▪ Use process skills to make inferences and predictions using collected information and to communicate, using space/time relationships, defining operationally.</li> </ul> <p><i>Earth Sciences</i> 3.5.10.D</p> <ul style="list-style-type: none"> <li>▪ Relate aquatic life to water conditions (e.g., turbidity, temperature, salinity, dissolved oxygen, nitrogen levels, pressure).</li> <li>▪ Assess the natural and man-made factors that affect the availability of clean water (e.g., rock and mineral deposits, man-made pollution).</li> </ul>		<p>Analysis Data Collection Hands On Investigation Observation</p>	<p>Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist</p>	

*Technological Devices*

3.7.10.B

- Describe and use appropriate instruments to gather and analyze data.

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.6.4.A, 4.8.4.C  
 4.1.7.B, 4.1.7.D  
 Science and Technology: 3.3.4.A

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Nutrients: Nutrition or Nuisance?	<p><i>Watersheds and Wetlands</i>  <b>Older students option</b>            4.1.7.B</p> <ul style="list-style-type: none"> <li>▪ Explain factors that affect water quality and flow through a watershed.</li> </ul> <p>4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Describe the different functions of a wetland.</li> </ul> <p><i>Ecosystems and their Interactions</i>            4.6.4.A</p> <ul style="list-style-type: none"> <li>▪ Identify basic needs of a plant and an animal and explain how their needs are met.</li> <li>▪ Identify environmental variables that affect plant growth.</li> </ul> <p><i>Humans and the Environment</i>            4.8.4.C</p> <ul style="list-style-type: none"> <li>▪ Identify everyday human activities and how they affect the environment.</li> </ul>	<p><i>Biological Sciences</i>            3.3.4.A</p> <ul style="list-style-type: none"> <li>▪ Identify life processes of living things (e.g. growth, digestion, react to environment).</li> <li>▪ Describe basic needs of plants and animals.</li> </ul>	<p>Arts and Humanities  <i>Production, Performance and Exhibition of Dance, Music, Theatre and Visual Arts</i>            9.1.3.B</p>	<p>Gaming            Role Playing</p>	<p>Verbal/Linguistic            Musical/Rhythmic            Bodily/Kinesthetic</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.2.7.B, 4.6.7.A  
 Science and Technology:

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Marsh Munchies	<p><i>Renewable and Nonrenewable Resources</i>            4.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Determine how consumption may impact the availability of resources.</li> </ul> <p><i>Ecosystems and their Interactions</i>            4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Understand limiting factors and predict their effects on an organism.</li> </ul>		<p>Family and Consumer Sciences  <i>Food Science and Nutrition</i>            11.3.6.E</p> <p>Health, Safety &amp; Physical Education  <i>Concepts of Health</i>            10.1.6.C</p> <p>Mathematics  <i>Computation and Estimation</i>            2.2.5.A</p>	<p>Calculation            Discussion            Gaming            Role Playing</p>	<p>Verbal/Linguistic            Logical/Mathematical            Bodily/Kinesthetic            Naturalist            Interpersonal</p>	



## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D, 4.3.7.B, 4.7..7.B, 4.8.7.D  
 Science and Technology: 3.2.7.B, 3.5.7.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Recipe for Trouble	<p><i>Watersheds and Wetlands</i> 4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Describe the different functions of a wetland.</li> </ul> <p><i>Environmental Health</i> 4.3.7.B</p> <ul style="list-style-type: none"> <li>▪ Identify residential and industrial sources of pollution and their effects on environmental health.</li> <li>▪ Explain the difference between point and nonpoint source pollution.</li> </ul> <p><i>Threatened, Endangered and Extinct Species</i> 4.7.7.B</p> <ul style="list-style-type: none"> <li>▪ Explain how living things respond to changes in their environment.</li> <li>▪ Explain how one species may survive an environmental change while another might not.</li> </ul> <p><i>Humans and the Environment</i> 4.8.7.D</p> <p>Explain how human activities and natural events have affected ecosystems.</p>	<p><i>Inquiry and Design</i> 3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> <li>▪ Design controlled experiments, recognize variables, and manipulate variables.</li> <li>▪ Interpret data, formulate models, design models, and produce solutions.</li> </ul> <p><i>Earth Sciences</i> 3.5.7.D</p> <ul style="list-style-type: none"> <li>▪ Compare the effect of water type (e.g., polluted, fresh, salt water) and the life contained in them.</li> </ul>		Classification Data Collection Experiment Problem Solving	Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.10.B, 4.1.10.D, 4.3.10.B  
 4.3.12.A  
 Science and Technology: 3.1.10.B, 3.2.10.D, 3.5.10.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Water Under Foot	<p><i>Watersheds and Wetlands</i>            4.1.10.B</p> <ul style="list-style-type: none"> <li>▪ Describe factors that affect the quality of groundwater.</li> </ul> <p>4.1.10.D</p> <ul style="list-style-type: none"> <li>▪ Describe wetlands in terms of their effects (e.g., habitat, flood, buffer zones, prevention areas, nurseries, food production areas).</li> <li>▪ Explain how a wetland influences water quality, wildlife and water retention.</li> </ul> <p><i>Environmental Health</i>            4.3.10.B</p> <ul style="list-style-type: none"> <li>▪ Explain how human practices affect the quality of the water and soil.</li> </ul> <p>4.3.12.A</p> <ul style="list-style-type: none"> <li>▪ Explain the different disposal methods used for toxic and hazardous waste.</li> </ul>	<p><i>Unifying Themes</i>            3.1.10.B</p> <ul style="list-style-type: none"> <li>▪ Examine the advantages of using models to demonstrate processes and outcomes.</li> </ul> <p><i>Inquiry and Design</i>            3.2.10.D</p> <ul style="list-style-type: none"> <li>▪ Examine the problem, rank all necessary information and all questions that must be answered.</li> <li>▪ Propose and analyze a solution.</li> </ul> <p><i>Earth Sciences</i>            3.5.10.D</p> <ul style="list-style-type: none"> <li>▪ Assess the natural and man-made factors that affect the availability of clean water (e.g., rock and mineral deposits, man-made pollution).</li> </ul>		Demonstration Model Observation Problem Solving	Verbal/Linguistic Logical/Mathematical Visual/Spatial	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.10.B, 4.1.10.D, 4.3.10.B  
 Science and Technology: 3.5.10.B, 3.5.10.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Runoff Race	<p><i>Watersheds and Wetlands</i> 4.1.10.B</p> <ul style="list-style-type: none"> <li>▪ Explain how vegetation affects storm water runoff.</li> <li>▪ Explain how the speed of water and vegetation cover relates to erosion.</li> </ul> <p>4.1.10.D</p> <ul style="list-style-type: none"> <li>▪ Describe wetlands in terms of their effects (e.g., habitat, flood, buffer zones, prevention areas, nurseries, food production areas).</li> <li>▪ Explain how a wetland influences water quality, wildlife and water retention.</li> </ul> <p><i>Environmental Health</i> 4.3.10.B</p> <ul style="list-style-type: none"> <li>▪ Explain how human practices affect the quality of the water and soil.</li> </ul>	<p><i>Unifying Themes</i> 3.1.10.B</p> <ul style="list-style-type: none"> <li>▪ Examine the advantages of using models to demonstrate processes and outcomes.</li> </ul> <p><i>Earth Sciences</i> 3.5.10.D</p> <ul style="list-style-type: none"> <li>▪ Relate aquatic life to conditions (e.g. turbidity, temperature, salinity, dissolve oxygen, nitrogen levels, pressure).</li> <li>▪ Assess the natural and man-made factors that affect the availability of clean water (e.g., rock and mineral deposits, man-made pollution).</li> </ul>		<p>Demonstration Discussion Model Observation</p>	<p>Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.10.B, 4.1.10.D  
 Science and Technology: 3.1.10.B, 3.5.10.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Wetland in a Pan	<p><i>Watersheds and Wetlands</i> 4.1.10.B</p> <ul style="list-style-type: none"> <li>▪ Explain how vegetation affects storm water runoff.</li> <li>▪ Explain how the speed of water and vegetation cover relates to erosion.</li> </ul> <p>4.1.10.D</p> <ul style="list-style-type: none"> <li>▪ Describe wetlands in terms of their effects (e.g., habitat, flood, buffer zones, prevention areas, nurseries, food production areas).</li> <li>▪ Explain how a wetland influences water quality, wildlife and water retention.</li> </ul>	<p><i>Unifying Themes</i> 3.1.10.B</p> <ul style="list-style-type: none"> <li>▪ Examine the advantages of using models to demonstrate processes and outcomes.</li> </ul> <p><i>Earth Sciences</i> 3.5.10.D</p> <ul style="list-style-type: none"> <li>▪ Relate aquatic life to conditions (e.g. turbidity, temperature, salinity, dissolve oxygen, nitrogen levels, pressure).</li> <li>▪ Assess the natural and man-made factors that affect the availability of clean water (e.g., rock and mineral deposits, man-made pollution).</li> </ul>		<p>Demonstration Discussion Model Observation</p>	<p>Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.10.B, 4.1.10.D, 4.3.10.A  
 Science and Technology: 3.1.10.B, 3.2.10.B, 3.5.10.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Water Purifiers	<p><i>Watersheds and Wetlands</i>            4.1.10.B</p> <ul style="list-style-type: none"> <li>▪ Explain how vegetation affects storm water runoff.</li> </ul> <p>4.1.10.D</p> <ul style="list-style-type: none"> <li>▪ Describe wetlands in terms of their effects (e.g., habitat, flood, buffer zones, prevention areas, nurseries, food production areas).</li> <li>▪ Explain how a wetland influences water quality, wildlife and water retention.</li> </ul> <p><i>Environmental Health</i>            4.3.10.A</p> <ul style="list-style-type: none"> <li>▪ Explain the costs and benefits of cleaning up contaminants.</li> </ul>	<p><i>Unifying Themes</i>            3.1.10.B</p> <ul style="list-style-type: none"> <li>▪ Examine the advantages of using models to demonstrate processes and outcomes.</li> </ul> <p><i>Inquiry and Design</i>            3.2.10.B</p> <ul style="list-style-type: none"> <li>▪ Describe materials using precise quantitative and qualitative skills based on observations.</li> <li>▪ Use process skills to make inferences and predictions using collected information and to communicate using space/time relationships, defining operationally.</li> </ul> <p><i>Earth Sciences</i>            3.5.10.D</p> <ul style="list-style-type: none"> <li>▪ Identify the components of a municipal/agricultural water supply system and a wastewater treatment system.</li> <li>▪ Assess the natural and man-made factors that affect the availability of clean water (e.g., rock and mineral deposits, man-made pollution).</li> </ul>	<p>Mathematics  <i>Computation and Estimation</i>            2.2.11.A</p>	<p>Comparison            Demonstration            Investigation            Model            Observation</p>	<p>Verbal/Linguistic            Logical/Mathematical            Visual/Spatial            Naturalist</p>	



## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.B  
 4.1.10.B, 4.1.10.E  
 Science and Technology: 3.5.10.A, 3.5.10.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Over Hill and Dale	<p><i>Watersheds and Wetlands</i>            4.1.7.B</p> <ul style="list-style-type: none"> <li>▪ Identify and explain what determines the boundaries of a watershed.</li> <li>▪ Explain factors that affect water quality and flow through a watershed.</li> </ul> <p>4.1.10.B</p> <ul style="list-style-type: none"> <li>▪ Describe how topography influences streams.</li> </ul> <p>4.1.10.E</p> <ul style="list-style-type: none"> <li>▪ Identify the effects of humans and human events on watersheds.</li> </ul>	<p><i>Earth Sciences</i>            3.5.10.A</p> <ul style="list-style-type: none"> <li>▪ Interpret topographic maps to identify and describe significant geologic history/structures in Pennsylvania.</li> </ul> <p>3.5.10.D</p> <ul style="list-style-type: none"> <li>▪ Assess the natural and man-made factors that affect the availability of clean water (e.g., rock and mineral deposits, man-made pollution).</li> </ul>	<p>Geography  <i>Basic Geographic Literacy</i>            7.1.6.A, 7.2.6.A            7.1.9.A, 7.1.9.B</p>	<p>Demonstration            Investigation            Mapping            Model            Observation            Problem Solving            Small Group</p>	<p>Verbal/Linguistic            Logical/Mathematical            Visual/Spatial            Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.6.4.A  
 4.6.7.A  
 Science and Technology: 3.5.4.A

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Nature's Recyclers	<p><i>Ecosystems and their Interactions</i>            4.6.4.A</p> <ul style="list-style-type: none"> <li>▪ Describe how animals interact with plants to meet their needs for shelter.</li> <li>▪ Describe how certain insects interact with soil for their needs.</li> <li>▪ Identify a simple ecosystem and its living and nonliving components.</li> <li>▪ Identify common soil textures.</li> <li>▪ Identify animals that live underground.</li> </ul> <p>4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Identify niches for producers, consumers and decomposers within an ecosystem.</li> </ul>	<p><i>Earth Sciences</i>            3.5.4.A</p> <ul style="list-style-type: none"> <li>▪ Identify the composition of soil as weathered rock and decomposed organic remains.</li> </ul>		<p>Hands On            Investigation            Observation            Small Group</p>	<p>Verbal/Linguistic            Visual/Spatial            Naturalist</p>	



## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.B, 4.1.7.D, 4.4.7.B, 4.6.7.A  
 Science and Technology: 3.5.4.B  
 3.1.7.C, 3.2.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Do You Dig Wetland Soil?	<p><i>Watersheds and Wetlands</i> 4.1.7.B</p> <ul style="list-style-type: none"> <li>▪ Explain factors that affect water quality and flow through a watershed.</li> </ul> <p>4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> </ul> <p><i>Agriculture and Society</i> 4.4.7.B</p> <ul style="list-style-type: none"> <li>▪ Determine how water has influenced the development of Pennsylvania soil types.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Explain the importance of particle sizes in different soil types.</li> <li>▪ Explain how different soil types determine the characteristics of ecosystems.</li> </ul>	<p><i>Unifying Themes</i> 3.1.7.C</p> <ul style="list-style-type: none"> <li>▪ Identify different forms of patterns and use them to group and classify specific objects.</li> </ul> <p><i>Inquiry and Design</i> 3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe materials using a variety of scales.</li> <li>▪ Describe relationships by making inferences and predictions.</li> </ul> <p><i>Earth Sciences</i> 3.5.4.B</p> <ul style="list-style-type: none"> <li>▪ Identify and sort earth materials according to a classification key (3.g., soil/rock type).</li> </ul>	<p>Geography <i>The Physical Characteristics of Places and Regions</i> 7.2.6.A</p>	<p>Classification Data Collection Hands On Investigation Observation</p>	<p>Verbal/Linguistic Visual/Spatial Logical/Mathematical Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.B, 4.1.7.D, 4.4.7.B  
 Science and Technology: 3.2.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
How Thirsty is the Ground?	<p><i>Watersheds and Wetlands</i> 4.1.7.B</p> <ul style="list-style-type: none"> <li>▪ Explain factors that affect water quality and flow through a watershed.</li> </ul> <p>4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> </ul> <p><i>Agriculture and Society</i> 4.4.7.B</p> <ul style="list-style-type: none"> <li>▪ Explain the importance of particle sizes in different soil types.</li> <li>▪ Determine how water has influenced the development of Pennsylvania soil types.</li> </ul>	<p><i>Inquiry and Design</i> 3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> <li>▪ Communicate, use space/time relationships, define operationally, raise questions, formulate hypotheses, test and experiment.</li> </ul>	<p>Mathematics <i>Computation and Estimation</i> 2.2.8.B <i>Measurement and Estimation</i> 2.3.8.B</p>	<p>Calculation Comparison Data Collection Hands On Investigation Observation Small Group</p>	<p>Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D, 4.2.7.D, 4.4.7.C, 4.6.7.A  
 Science and Technology: 3.2.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
A Rottin' Experiment	<p><i>Watersheds and Wetlands</i> 4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> </ul> <p><i>Renewable and Nonrenewable Resources</i> 4.2.7.D</p> <ul style="list-style-type: none"> <li>▪ Compare the decomposition rates of different organic materials.</li> </ul> <p><i>Agriculture and Society</i> 4.4.7.C</p> <ul style="list-style-type: none"> <li>▪ Analyze the needs of plants and animals as they relate to climate and soil conditions.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Demonstrate the dependency of living components in the ecosystem on the nonliving components.</li> </ul>	<p><i>Unifying Themes</i> 3.1.7.B</p> <ul style="list-style-type: none"> <li>▪ Apply models to predict specific results and observations (e.g., population growth, effects of infectious organisms).</li> </ul> <p><i>Inquiry and Design</i> 3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> <li>▪ Design controlled experiments, recognize variables, and manipulate variables.</li> <li>▪ Interpret data, formulate models, design models, and produce solutions.</li> </ul>	<p>Mathematics <i>Statistics and Data Analysis</i> 2.6.5A</p>	<p>Data Collection Experiment Graphing Observation</p>	<p>Verbal/Linguistic Logical/Mathematical Visual/Spatial</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D, 4.1.7.E  
 Science and Technology: 3.2.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Nature's Filter	<p><i>Watersheds and Wetlands</i>            4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils</li> <li>▪ Describe the different functions of a wetland.</li> </ul> <p>4.1.7.E</p> <ul style="list-style-type: none"> <li>▪ Explain the impact of watersheds and wetlands in flood control, wildlife habitats and pollution abatement.</li> </ul>	<p><i>Inquiry and Design</i>            3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> <li>▪ Communicate, use space/time relationships, define operationally, raise questions, formulate hypotheses, test and experiment.</li> </ul>		Demonstration Investigation Observation	Verbal/Linguistic Logical/Mathematical Visual/Spatial	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.10.E, 4.8.10.C, 4.9.10.A  
 Science and Technology:

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Hear Ye! Hear Ye!	<p><i>Watersheds and Wetlands</i> 4.1.10.E</p> <ul style="list-style-type: none"> <li>▪ Identify the effects of humans and human events on watersheds.</li> </ul> <p><i>Humans and the Environment</i> 4.8.10.C</p> <ul style="list-style-type: none"> <li>▪ Analyze and evaluate changes in the environment that are the result of human activities.</li> </ul> <p><i>Environmental Laws and Regulations</i> 4.9.10.A</p> <ul style="list-style-type: none"> <li>▪ Understand conflicting rights of property owners and environmental laws and regulations.</li> <li>▪ Analyze the roles that local, state and federal governments play in the development and enforcement of environmental laws.</li> </ul>		<p>Reading, Writing, Speaking and Listening <i>Speaking and Listening</i> 1.6.8.A, 1.6.8.D</p> <p>Arts and Humanities <i>Production, Performance and Exhibition of Dance, Music, Theatre and Visual Arts</i> 9.1.8.B</p> <p>Civics and Government <i>Rights and Responsibilities of Citizenship</i> 5.2.9.C</p>	Problem Solving Role Playing	Verbal/Linguistic Logical/Mathematical Interpersonal	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.3.7.B, 4.8.7.F  
4.1.10.E, 4.8.10.C

Science and Technology:

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Hydropoly	<p><i>Watersheds and Wetlands</i> 4.1.10.E</p> <ul style="list-style-type: none"> <li>▪ Identify the effects of humans and human events on watersheds.</li> </ul> <p><i>Environmental Health</i> 4.3.7.B</p> <ul style="list-style-type: none"> <li>▪ Identify land use practices and their relation to environmental health.</li> </ul> <p><i>Humans and the Environment</i> 4.8.7.D</p> <ul style="list-style-type: none"> <li>▪ Explain how human activities and natural events have affected ecosystems.</li> <li>▪ Explain how conservation practices have influenced ecosystems.</li> </ul> <p>4.8.10.C</p> <ul style="list-style-type: none"> <li>▪ Analyze and evaluate changes in the environment that are the result of human activities.</li> </ul>			Gaming Problem Solving Valuing	Verbal/Linguistic Intrapersonal	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D, 4.2.7.D, 4.6.7.A  
 Science and Technology: 3.1.7.B, 3.2.7.B

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
People of the Bog	<p><i>Watersheds and Wetlands</i> 4.1.7.D</p> <ul style="list-style-type: none"> <li>▪ Identify specific characteristics of wetland plants and soils.</li> <li>▪ Recognize the different types of plants and animals.</li> <li>▪ Describe different types of wetlands.</li> </ul> <p><i>Renewable and Nonrenewable Resources</i> 4.2.7.D</p> <ul style="list-style-type: none"> <li>▪ Compare the decomposition rates of different organic materials.</li> </ul> <p><i>Ecosystems and their Interactions</i> 4.6.7.A</p> <ul style="list-style-type: none"> <li>▪ Describe and explain the adaptations of plants and animals to their environment.</li> </ul>	<p><i>Unifying Themes</i> 3.1.7.B</p> <ul style="list-style-type: none"> <li>▪ Apply models to predict specific results and observations ( e.g., population growth, effects of infectious organisms).</li> </ul> <p><i>Inquiry and Design</i> 3.2.7.B</p> <ul style="list-style-type: none"> <li>▪ Describe relationships by making inferences and predictions.</li> <li>▪ Design controlled experiments, recognize variables, and manipulate variables.</li> <li>▪ Interpret data, formulate models, design models, and produce solutions.</li> </ul>		Data Collection Experiment Writing	Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.9.10.A  
4.9.12.A

Science and Technology:

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Regulation Rummy	<p><i>Environmental Laws and Regulations</i> 4.9.10.A</p> <ul style="list-style-type: none"> <li>▪ Analyze the roles that local, state and federal governments play in the development and enforcement of environmental laws.</li> </ul> <p>4.9.12.A</p> <ul style="list-style-type: none"> <li>▪ Analyze and explain how issues lead to environmental law or regulation (e.g., underground storage tanks, regulation of water discharges, hazardous, solid and liquid industrial waste, endangered species).</li> </ul>		<p>Civics and Government <i>How Government Works</i> 5.3.9.D</p>	<p>Analysis Gaming Small Group</p>	<p>Verbal/Linguistic Logical/Mathematical</p>	



## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.4.D, 4.2.4.A, 4.8.4.D  
 Science and Technology: 3.1.4.A, 3.2.4.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
What a Boat!	<p><i>Watersheds and Wetlands</i> 4.1.4.D</p> <ul style="list-style-type: none"> <li>▪ Identify plants and animals found in wetlands.</li> </ul> <p><i>Renewable and Nonrenewable Resources</i> 4.2.4.A</p> <ul style="list-style-type: none"> <li>▪ Identify how the environment provides for the needs of people.</li> </ul> <p><i>Humans and the Environment</i> 4.8.4.D</p> <ul style="list-style-type: none"> <li>▪ Identify items used in daily life that come from natural resources.</li> </ul>	<p><i>Unifying Themes</i> 3.1.4.B</p> <ul style="list-style-type: none"> <li>▪ Identify and apply models as tools for prediction and insight.</li> <li>▪ Apply appropriate simple modeling tools and techniques.</li> </ul> <p><i>Inquiry and Design</i> 3.2.4.D</p> <ul style="list-style-type: none"> <li>▪ Identify possible solutions and their course of action.</li> <li>▪ Try a solution.</li> <li>▪ Describe the solution, identify its impacts and modify if necessary.</li> <li>▪ Show the steps taken and the results.</li> </ul>	<p>Geography <i>The Human Characteristics of Places and Regions</i> 7.3.3.B</p> <p>Arts and Humanities <i>Production, Performance and Exhibition of Dance, Music, Theatre and Visual Arts</i> 9.1.3.B</p>	Art Form Demonstration Model	Verbal/Linguistic Logical/Mathematical Visual/Spatial	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.7.D  
 Science and Technology:

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Chrysti the Wordsmith on Wetlands	<i>Watersheds and Wetlands</i> 4.1.7.D <ul style="list-style-type: none"> <li>▪ Describe different types of wetlands.</li> </ul>		Reading, Writing, Speaking and Listening <i>Characteristics and Functions of the English Language</i> 1.7.8.A <i>Research</i> 1.8.8.B  Geography <i>The Human Characteristics of Places and Regions</i> 7.3.9.B	Small Group	Verbal/Linguistic	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.1.10.D, 4.8.10.C  
 4.1.12.E, 4.6.12.C  
 Science and Technology: 3.2.12.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Wetland Tradeoffs	<p><i>Watersheds and Wetlands</i>            4.1.10.D</p> <ul style="list-style-type: none"> <li>▪ Describe wetlands in terms of their effects (e.g., habitat, flood, buffer zones, prevention areas, nurseries, food production areas).</li> </ul> <p>4.1.12.E</p> <ul style="list-style-type: none"> <li>▪ Evaluate the effects of natural events on watersheds and wetlands.</li> <li>▪ Evaluate the effects of human activities on watersheds and wetlands.</li> </ul> <p><i>Ecosystems and their Interaction</i>            4.6.12.C</p> <ul style="list-style-type: none"> <li>▪ Analyze the effects of human action on an ecosystem.</li> </ul> <p><i>Humans and the Environment</i>            4.8.10.C</p> <ul style="list-style-type: none"> <li>▪ Analyze and evaluate changes in the environment that are the result of human activities.</li> </ul>	<p><i>Inquiry and Design</i>            3.2.12.D</p> <ul style="list-style-type: none"> <li>▪ Assess all aspects of the problem, prioritize the necessary information and formulate questions that must be answered.</li> <li>▪ Propose, develop and appraise the best solution and develop alternative solutions.</li> </ul>	<p>Reading, Writing, Speaking and Listening  <i>Speaking and Listening</i>            1.6.11.D  <i>Research</i>            1.8.11.B</p> <p>Economics  <i>Scarcity and Choice</i>            6.3.12.B</p> <p>Civics and Government  <i>Rights and Responsibilities of Citizenship</i>            5.2.12.C</p>	<p>Valuing            Problem Solving            Discussion            Research            Brainstorm</p>	<p>Verbal/Linguistic            Interpersonal            Intrapersonal</p>	

## WONDERS OF WETLANDS

**Standard(s):** Environment and Ecology: 4.8.10.C  
 4.1.12.E, 4.6.12.C  
 Science and Technology: 3.8.10.B  
 3.2.12.D

Name of Activity	Environment & Ecology Standards Content	Science & Technology Standards Content	Other Standards Addressed	Teaching Strategies	Multiple Intelligences	Assessment Ideas (Teacher generated)
Helping Wetland Habitats	<p><i>Watersheds and Wetlands</i> 4.1.12.E</p> <ul style="list-style-type: none"> <li>▪ Evaluate the effects of natural events on watersheds and wetlands.</li> <li>▪ Evaluate the effects of human activities on watersheds and wetlands.</li> </ul> <p><i>Ecosystems and their Interaction</i> 4.6.12.C</p> <ul style="list-style-type: none"> <li>▪ Analyze the effects of human action on an ecosystem.</li> </ul> <p><i>Humans and the Environment</i> 4.8.10.C</p> <ul style="list-style-type: none"> <li>▪ Analyze and evaluate changes in the environment that are the result of human activities.</li> </ul>	<p><i>Inquiry and Design</i> 3.2.12.D</p> <ul style="list-style-type: none"> <li>▪ Assess all aspects of the problem, prioritize the necessary information and formulate questions that must be answered.</li> <li>▪ Propose, develop and appraise the best solution and develop alternative solutions.</li> <li>▪ Implement and assess the solution.</li> </ul> <p><i>Science, Technology and Human Endeavors</i> 3.8.10.B</p> <ul style="list-style-type: none"> <li>▪ Identify several problems and opportunities that exist in your community, apply various problem-solving methods to design and evaluate possible solutions.</li> </ul>	<p>Reading, Writing, Speaking and Listening <i>Types of Writing</i> 1.4.8.B 1.4.11.B</p>	<p>Analysis Hands On Observation Problem Solving</p>	<p>Verbal/Linguistic Logical/Mathematical Visual/Spatial Naturalist Intrapersonal</p>	