



CURRICULUM MAPPING BY GRADE

Black River Canal Trail Mapping

Grade	Objective	Vocabulary	Learning Standards
4th	<ul style="list-style-type: none"> - Understand reasons for building the canal - Explain the difference between locks & combines - Understand/explain the historical importance of the canal era - Explore relationship between working animals and humans - Explain what life would be like on the canal for a 10 year old - Understand how the canal and locks operate 	Combine Locks Tenders Feeder Canal Canalers Mule Towpath Hogee Bedstraw Milkweed Staghorn Sumac Goldenrod Burdock Floation Displacement Raptors Passerines	Social Studies Standard #1 PE Standard 1, 2, 3 MST Standard 4

Alder Creek Gorge Trail Mapping

Grade	Objective	Vocabulary	Learning Standards
2nd	<ul style="list-style-type: none"> - Recognize glacial erratics, creep and their effects - Recognize the differences between coniferous and deciduous trees - Identify 1 form of pollution - Identify 1 form of vegetation - Identify animal track/scat 	Glacial erratic Creep Deciduous Coniferous Pollution Seasonal changes Scat	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Alder Creek Gorge Trail Mapping

Grade	Objective	Vocabulary	Learning Standards
3rd	<ul style="list-style-type: none"> - Identify 2 forms of flora - Recognize a kettle - Identify a fungus - Identify a lichen - Identify 1 sign of erosion 	Kettle Photosynthesis Fungus Decomposer Lichen Algae Symbiosis Erosion Flora	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Alder Creek Gorge Trail Mapping

Grade	Objective	Vocabulary	Learning Standards
4th	<ul style="list-style-type: none"> - Identify 3 forms of flora - Identify 3 forms of glacial activity - Describe the effect of creep on humans, fauna & flora - Explain the difference between indigenous and invasive species 	Kame Moraine Erosion Watershed Predator / prey Indigenous / invasive Fauna	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Alder Creek Gorge Trail Mapping

Grade	Objective	Vocabulary	Learning Standards
5th/6th	<ul style="list-style-type: none"> - Recognize esker characteristics and their cause - Compare & contrast different habitats - Identify 4 forms of flora - Discuss characteristics of different rock formation 	Esker Cobble Stone Sedimentary Metamorphic Igneous Understory Canopy	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Alder Creek Gorge Trail Mapping

Grade	Objective	Vocabulary	Learning Standards
7th/8th	<ul style="list-style-type: none"> - Identify 5 forms of flora - Describe how a stream effects topography, fauna & humans - Identify & explain the formation of erratics, eskers and kettle 	Ecosystem Carbon Footprint Topography	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Alder Creek Gorge Trail Mapping

Grade	Objective	Vocabulary	Learning Standards
Earth Science	<ul style="list-style-type: none"> - Recognize and explain glacial forms and their impact on the environment - Classify sedimentary, metamorphic and igneous rock types - Deduce which features were caused by glacial action - Analyze what effect glacial action still has on humans today - Discuss how glaciers impacted animal life in the past - Discuss how glacial features still impact animal life today 	Till Drumlin Outwash U-shaped valley V-shaped valley Terrain	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Alder Creek Gorge Trail Mapping

Grade	Objective	Vocabulary	Learning Standards
Biology	<ul style="list-style-type: none"> - Determine the relationship between producers, consumers, and saprophytes (decomposers) - Sequence the energy flow through the environment - Describe the succession of an open field to a forest over time - Search and explain an example of nature repairing itself 	Producers Consumers Saprophyte Succession Decomposer Defoliation	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Jackson Hill Trail (Into the woods) Mapping

Grade	Objective	Vocabulary	Learning Standards
4th	<ul style="list-style-type: none"> - Identify 3 forms of flora - Identify and explain the visible signs of erosion - Explain the difference between indigenous and invasive species - Describe the interdependence of flora and fauna - Investigate a positive and negative effect of humans on habitat - Classify selected animals into their phyla 	<p style="text-align: center;">Erosion Watershed Predator / prey Indigenous species Invasive species Fauna</p>	<p style="text-align: center;">PE Standard 1, 2, 3 Health Standard 2 MST Standard 4</p>

Jackson Hill Trail (Into the woods) Mapping

Grade	Objective	Vocabulary	Learning Standards
5th/6th	<ul style="list-style-type: none"> - Identify 4 forms of flora - Compare and contrast different habitats - Compare and contrast the canopy and understory - Sequence the transformation of a field to a forest 	<p style="text-align: center;">Understory Canopy</p>	<p style="text-align: center;">PE Standard 1, 2, 3 Health Standard 2 MST Standard 4</p>

Jackson Hill Trails (Into the woods / Sunfield) Mapping

Grade	Objective	Vocabulary	Learning Standards
7th/8th	<ul style="list-style-type: none"> - Describe the interrelationships between different populations - Describe human interference in an ecosystem and its effects on the environment - Recognize the importance of predators in the environment - Recognize how topography affects the watershed 	Ecosystem Carbon Footprint Topography	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Jackson Hill Trail (Telemark) Mapping

Grade	Objective	Vocabulary	Learning Standards
Earth Science	<ul style="list-style-type: none"> - Introduce the coordination of compasses and maps in orienteering - Deduce which features were caused by erosive action - Analyze what effect erosive action still has on humans today - Discuss how erosion impacted life in the past & present 	Outwash U-shaped valley V-shaped valley Terrain Orienteering	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4 SS Standard 3

Jackson Hill Trail (Serpentine) Mapping

Grade	Objective	Vocabulary	Learning Standards
Biology	<ul style="list-style-type: none">- Determine the relationship between producers, consumers, and saprophytes (decomposers)- Observe and describe an example of nature repairing itself- Describe the succession of an open field to a forest over time- Sequence the energy flow through the environment- Compare and contrast hillside environments at different elevations and locations	Producers Consumers Saprophyte Succession Decomposer Defoliation	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Potato Hill Farm Outdoor Education Center Mapping

Grade	Objective	Vocabulary	Learning Standards
2nd	<ul style="list-style-type: none"> - Recognize a glacial erratic and its effects - Identify one form of vegetation - Identify animal tracks/scat - Recognize differences between coniferous & deciduous trees - Identify man-made forms of pollution - Compare/contrast the different structures in two plant types (i.e. trees, flowers) - Observe pond life & discuss (i.e. insects, amphibians, birds) 	Deciduous Coniferous Glacial erratic Pollution Seasonal Changes Scat	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4
3rd	<ul style="list-style-type: none"> - Identify two forms of flora - Identify fungus - Identify moss - Compare and contrast pond habitat vs field or wood - Identify a lichen - Discuss seasonal changes - Identify one sign of erosion 	Photosynthesis Fungus Decomposer Lichen Moss Algae Symbiosis Erosion Flora Migration	PE Standard 1, 2, 3 Health Standard 2 MST Standard 4

Potato Hill Farm Outdoor Education Center Mapping (cont).

4th	<ul style="list-style-type: none"> - Identify 3 forms of flora - Explain the difference between indigenous and invasive species - Describe the interdependence of flora and fauna - Investigate a positive and negative effect of humans on habitat - Classify selected animals into their phyla 	<p>Erosion Watershed Predator/prey Indigenous species Invasive species Fauna</p>	<p>PE Standard 1, 2, 3 Health Standard 2 MST Standard 4</p>
5th / 6th	<ul style="list-style-type: none"> - Identify 4 forms of flora - Compare and contrast different habitats - Discuss characteristics of different metamorphic, igneous & sedimentary rock formations - Compare and contrast the canopy and understory - Recognize the difference between a fen, bog and pond 	<p>Metamorphic Igneous Sedimentary Understory Canopy Microenvironment Fen Bog pH</p>	<p>PE Standard 1, 2, 3 Health Standard 2 MST Standard 4</p>

Potato Hill Farm Outdoor Education Center Mapping (cont).

<p>7th / 8th</p>	<ul style="list-style-type: none"> - Describe the interrelationships between different populations - Describe human interference in an ecosystem and its effects on the environment - Compare aquatic vegetation - Recognize how topography affects the watershed - Recognize the importance of predators in the environment 	<p style="text-align: center;">Ecosystem Carbon Footprint Topography Sedge Reed</p>	<p>PE Standard 1, 2, 3</p> <p>Health Standard 2</p> <p>MST Standard 4</p>
<p>Earth Science</p>	<ul style="list-style-type: none"> - Recognize and explain glacial erratics and their impact on the environment - Classify sedimentary, metamorphic and igneous rock types - Deduce which features were caused by glacial action or erosion - Analyze what effect glacial action still has on humans today - Discuss how glaciers impacted animal life in the past - Discuss how glacial features still impact animal life today 	<p style="text-align: center;">Outwash U-shaped valley V-shaped valley Terrain Fossils Trilobite Arthropod Crinoid Echinoderm</p>	<p>PE Standard 1, 2, 3</p> <p>Health Standard 2</p> <p>MST Standard 4</p>