

John Heinz National Wildlife Refuge at Tinicum

Teacher-Led Lesson Plans

Grades K-2

<u>Color Hunt</u> - Students match tiles with colors in nature, sort their findings, & create a simple graph.

Nature Scavenger Hunt - Using their best detective skills, students explore nature & count as they search for a variety of plants, animals, and living things.

<u>Over in the Forest</u> - In this *indoor* lesson, students read a story about forest wildlife and enjoy a sensory experience with animal furs and feathers.

What Do Birds Do? - Students search for birds, observe their behavior, and tally their observations.

Rangers are
willing and able to
assist with
planning your
schedule for the
day and providing
resources for any
selected activities.

Grades 3-5

<u>Bird Investigation</u> - Students use inquiry to explore birds, study their adaptations, and brainstorm their own investigation questions. They then head outside with binoculars, field guides, and a journal page to search for answers.

See reverse for curriculum guide.

<u>The Great Habitat Hunt</u> - Students begin by comparing and contrasting human & wildlife habitat needs. Students then head outdoors search for habitat components that wildlife need to survive.

<u>Insect Investigation</u> - Students use nets, bug boxes, field guides, and hand lenses to explore the structures & functions of insects.

Meet A Tree - Using simple field guides and science tools to study trees, as they collect data on their circumference, height, and species.

<u>Nature Detectives</u> - Students investigate the outdoors for signs of wildlife and collect data. Each student then translates their data chart into a bar graph to summarize their results.

Grades 6-12

<u>BioBlitz</u> - Students study the biodiversity of the refuge by hiking and identifying as many organisms as possible to compare and contrast upland and wetland habitats.

<u>MicroAdventures</u> - Students use microscopes to investigate microscopic wetland life.

Water Quality - Students collect a water sample and use various metrics to determine the overall health of water quality, including observation, pH and Dissolved Oxygen.



Using Science Tools	Data Collection & Journaling	Graphing & Sorting	Comparing and Contrasting	Living and Non-Living Things	Habitat Needs	Classifying Organisms	Ecosystems and Diversity	Organisms	Structure and Function of	John Heinz NWR K - 2nd
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•	•	•	•	•	•	•	•			Nature Detectives In a W
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