

Life in the Pond

Synopsis

Pre-K—6th, upper

** Please have your students wear their own rubber boots if possible. If not, we have rubber boots to share with children and adults.



MN Academic Standards

supported during HNC program. More standards can be supported with pre- and post lesson activities.

Science

- 0.1.1.2.1 Observation of natural world
- 0.4.1.1.1 Observe plants and animals
- 1.1.1.1.1 Support answers with obs.
- 1.1.1.1.2 Accurate descriptions
- 1.1.3.2.1 Science tools
- 1.4.1.1.1 Sort animals
- 1.4.2.1.1 Animal needs for survival
- 1.4.2.1.2 Habitats provide needs
- 1.4.3.1.1 Animal life cycles
- 1.4.3.1.2 Life cycle
- 2.4.1.1 Living things are diverse
- 2.4.2.1 Natural systems
- 3.1.1.1.1 Support claims with evidence
- 3.1.1.2.2 Science is replicable
- 3.1.1.2.3 Record observations
- 3.1.1.2.4 Evidence based explanation
- 3.1.3.4.1 Science tools
- 3.4.1.1.1 Growth, survive, reproduce
- 3.4.1.1.2 Groups of animal/plants
- 3.4.3.2.1 Generational traits
- 4.2.1.1.1 Measure with science tools
- 5.1.1.1.1 Scientific process
- 5.1.1.1.2 Science is replicable
- 5.1.1.2.2 Scientific investigation
- 5.1.3.4.1 Data
- 5.4.1.1.1 Plant and animal structures
- 5.4.2.1.1 ~ MN natural systems
- 5.4.2.1.2 Changes to a system
- 5.4.4.1.1 Human interaction

Math

- 1.1.1.3 Count up to 120.
- 2.1.1.1 Whole numbers up to 1000.

Language Arts

- 0.8.1.1 D, 0.8.3.3, 1.8.1.1 C, E, 1.8.3.3, 2.8.1.1 C, E, 2.8.3.3, 3.8.1.1 C, D, F, 3.8.3.3, 4.8.1.1 C, D, 5.8.1.1 C, D, 6.9.1.1 C, D

Goals & Objectives

This program will:

- Take an up-close look at life in the pond
- Discuss water as a habitat
- Describe and demonstrate stages of metamorphosis
- Use scientific equipment to collect pond animals, record data and classify animals

Students will be able to:

- Recognize different animals that depend on water to live
- Identify species by comparing collected animals with pictures or keys
- List species observed

Activities

In the Classroom

- Use whiteboard, pictures, and/or stuffed animals (age dependent) to discuss “what is a pond?”, “who lives in a pond?”, and “what tools will we use to learn about the pond?”

In the Field

- Visit a pond in Hartley Park. Use dipping nets, magnifying glasses, and/or identification sheets to sample pond life and identify several species.

Bad Weather Alternative

- Observe aquatic macroinvertebrates using microscopes and magnifying glasses (HNC educators will catch critters before your arrival)
- Frog calling game
- Pond predator/prey games
- Observe live animals in building: turtles, salamander, snakes, fish

Authenticity

Data such as number of species and individuals contributes to Hartley’s environmental data collection.