

Plants

Synopsis

K, 1st—4th



Hartley
Nature Center

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
- 0.2.1.1.1 Sort items
- 0.4.1.1.1 Observe and compare plants
- 0.4.1.1.2 Identify plant parts
- 1.1.1.1.1 Support answer with obs.
- 1.1.3.2.1 Scientists use tools such as hand lenses
- 1.4.1.1.1 Observable characteristics
- 2.4.2.1 Natural systems
 - 2.4.1.1.1 Describe and sort plants
 - 2.4.2.1.1 Plant survival needs
 - 2.4.3.1.1 Characteristics and life stage
- 3.1.1.1.1 Support claims with evidence
- 3.4.1.1.1 Growth, survive, reproduce
 - 3.4.1.1.2 Identify groups of plants
 - 3.4.3.2.1 Generational traits
 - 3.4.3.2.2 Differences among individuals

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

Authenticity

Students observe native plants in their natural habitats.

Goals & Objectives

This program will:

- Review plant basic anatomy and function.
- Give an overview of plants' role in food chains.

Students will be able to:

- Describe the functions of basic plant parts.
- List the things plants need to survive.
- Explain the processes of pollination or seed dispersal.

Activities

In the classroom:

- Students brainstorm the things plants need in order to survive. They also help build a plant on the whiteboard and discuss the function of each major part.
- For younger students- The Sunshine Inn: A student volunteer chef will cook up a photosynthetic feast fit for a plant at a brand new café.

In the field:

- Explore the plants of Hartley Park. Search for colorful flowers, seeds, green moss, strong stems and trunks, and trees.
- Compare plants by shape, size, and color
- Play games about pollination, food chains, plant parts, and/or plant scents

Bad Weather Alternative

Station Rotation of:

- Bizz Buzz pollination game
- Seed dispersal relay game
- Examine plant parts under microscopes and magnifying glasses.
- Play a game that teaches about a plants role in its environment.
- Use field guides to identify plants (if grade level appropriate)