

# Spring Trees

## Synopsis

### K-2nd Grade



**Hartley**  
Nature Center

#### Summary

*Explore the forests of Hartley Park to discover the secrets behind the long lives of trees, including what they need to grow and why some lose their leaves, and how they awaken and come back to life each spring. At the same time, students will brainstorm how trees are necessary in the lives of animals and people alike.*

#### MN Academic Standards

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

##### *Science*

0.4.1.1.1, 0.4.1.1.2, 0.4.1.1.3, 1.1.1.1.1, 1.1.1.1.2, 1.1.3.1.1, , 1.1.3.2.1, 2.1.1.2.1, 2.4.1.1.1

##### *Language Arts*

0.8.1.1, 0.8.3.3, 1.8.1.1, 1.8.3.3, 2.8.1.1, 2.8.3.3

##### *Math*

1.3.2.1, 2.3.2.2

#### Authenticity

Observe tree species in their natural state/habitat.

#### Goals & Objectives

##### **This program will:**

- Identify the basic structure of the interior of trees.
- Introduce students to how trees use and move sap and nutrients up and down the tree.

##### **Students will be able to:**

- Identify the basic interior parts of a tree
- Describe the function of interior parts of a tree
- Identify the role of sap in the life of a tree

#### Activities

##### **In the classroom:**

- Review parts of a tree (trunk, leaves or needles, bark, roots, etc.). Create a diagram on the board.
- Introduce interior of tree (sapwood, heartwood) and the role of sap in the tree life cycle
- Examine what happens inside of trees, discuss how the inside of a tree useful to people

##### **In the field:**

- Visit many specimens of deciduous and coniferous trees. Seek examples of sap.
- Guide students to discover intriguing marks or unusual signs such as a squirrel cache of pinecones, deer rubs, or beaver chews.
- Identify parts of a tree including sapwood and sap etc.
- Measure trees using a tape measure

#### Bad Weather Alternative

##### Station Rotation of:

- Explore tree parts under hand lenses (pinecone scales, leaves in stages of decay, roots, bark, etc.)
- Play games such as the Water Relay Race
- Discuss and observe animals that use trees