**Middle School Envirothon  
Forestry Station**

**Essential Topics:**

1. What trees need to live and grow
2. Basics of Tree Identification
3. Forest Ecology
4. Forest Management
5. Threats to Healthy Forest Ecosystems (Invasive Species & Wildfires)

**Learning Objectives:**

**Upon completion of the forestry unit, students will be able to:**  
  
1. Know how trees grow and compete  
2. Identify some of the common PA trees, be familiar with using an identification key  
3. Understand tree propagation and forest regeneration   
4. Recognize that forests affect water quality quantity and flood mitigation   
5. Recognize the interrelationship between wildlife and forest habitat   
6. Name the main causes of and seasons for wildfires in PA

7. Know some of the products harvested from the forest

8. Understand the impact of invasive species and pests on the forests

# Reference Materials

Common Trees of PA <http://www.dcnr.state.pa.us/forestry/commontr/commontrees.pdf>

How a Tree Grows

Trees + Me = Forestry <http://rnrext.cas.psu.edu/PDFs/TreesMeForestry.pdf>

Forestry for the Bay <http://www.forestryforthebay.org/bay_forests.cfm>

Emerald Ash Borer <http://www.dcnr.pa.gov/Conservation/ForestsAndTrees/InsectsAndDiseases/EmeraldAshBorer/Pages/default.aspx>

Mile- a-minute weed <http://www.invasive.org/weedcd/pdfs/wow/mile-a-minute_weed.pdf>