Kentucky Envirothon Forestry Study Guide
If you have additional questions, please contact:
Laurie T. Thomas, Extension Forester
laurie.thomas@uky.edu

The forestry section of the Kentucky Envirothon will focus on forests as ecosystems in Kentucky. Students should have a basic understanding of forested ecosystems, how they function, how they change over time, how they can be managed and why they are valuable resources. The Envirothon test for the forestry section will consist of both a written section and a field component. The field component will include Tree Identification, Tree Measurement (diameter and merchantable height) and Compass and Pacing.

Resources

1. Forestry Overview PowerPoint 2022

2. Kentucky’s Forests and History of Forestry
   Kentucky’s Forests Video       History of Forestry in U.S. Video

3. Trees and Tree Identification
   a. Identify parts of a tree and their function
   b. Identify trees by leaves, bark, flower or seed (see Envirothon List of Kentucky Trees)
   c. How a tree grows
   4-H Forestry – Trees Unit A   Introducing Yourself to Trees   Tree Tips   Common Trees Videos
   Identifying Kentucky’s Tree Video   Tree Cross-Section/Cookie Video   Parts of a Tree (PLT)
   How a Tree Grows (VTech Dendrology)   KY Common Tree List   KY Envirothon Tree List

4. Forest Ecology, Forest Health and Ecosystem Services
   a. Ecology terminology
   b. The effects of climate and soil on forest growth
   c. Forest development and forest regions
   d. Forest Health
   e. Identify common invasive species (insects, plants and diseases)
   4-H Forestry – Forests Unit B   KY Forest Health Highlights 2019   Invasive Plant Flashcards
   Forest Health Threats   UK Urban Forest Initiative   Urban & Community Forests
   Kentucky’s Forest Ecosystems   KY Forest Ecosystems ppt

5. Sustainable Forest Management and Forest Products
   a. Silvicultural techniques (Forests Unit B pg. 19 – 21)
   b. Silvicultural Systems
   c. Forest Products
   4-H Forestry – Forests Unit B   Silvicultural Systems   Forest Products   Forest Products ppt

6. Tree Measurement and Compass and Pacing
   Tree Measurement   Measure Tree Diameter Video   Compass and Pacing