

## 2022 LEBANON COUNTY ENVIROTHON ELEMENTARY & MIDDLE SCHOOL

### FORESTRY OBJECTIVES WOOD/FORESTRY PRODUCTS

#### TESTING RESOURCES

*PDFs have been provided separately on the LCCD website for resources 4 -16.*

1. Common Trees of PA [http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr\\_20029752.pdf](http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20029752.pdf)  
\*In addition to using this resource for basic tree information, you should be able to identify and know the different tree parts and their functions, as listed in the introduction on page roman numeral X.
2. Summer Key for PA Trees <https://www.lccd.org/wp-content/uploads/2018/11/FORESTRY-TEST-SUMMER-KEY-FOR-PA-TREES-and-INVASIVE-KEY.pdf>
3. Leaf Characteristics-<https://www.lccd.org/wp-content/uploads/2019/10/Leaf-Characteristics-Updated-2018.pdf>  
Must be able to define, identify, and/or label the following:

Deciduous	Coniferous	Opposite leaves	Leaf Structure-Simple Leaf
Simple	Needle-like (cluster & bundle)	Alternate leaves	Leaf Structure-Compound Leaf
Compound	Scale-like	Whorled leaves	Blade
Palmate (compound leaves)	Palmate veins		Petiole
Pinnate (compound leaves)	Pinnate veins		Node
	Parallel veins		Bud
			Stem
MAD HORSE			Leaflet

4. From the Forest
5. The Forester's Job
6. Hardwood Lumber
7. Hardwood Veneer
8. Harvesting Trees
9. Maple Syrup
10. Paper!
11. Paper Recycling



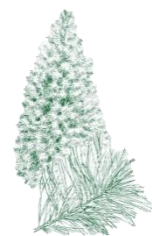
12. People & Trees
13. The Right Chemistry (pgs. 1-4 only):
14. Christmas Trees
15. Baseball Bats
16. How Do You Measure a Tree? **(MS ONLY)**
17. Trees + Me = Forestry: [https://www.lccd.org/wp-content/uploads/2020/10/TREES\\_ME\\_FORESTRY.pdf](https://www.lccd.org/wp-content/uploads/2020/10/TREES_ME_FORESTRY.pdf)  
Pages 45-52: Units of Measurement. **(MS ONLY)**

### TREE SPECIES LIST:

American Chestnut	Eastern Hemlock	Sweet Birch
Black Cherry	Eastern White Pine	Sugar Maple
Black Locust	Northern Red Oak	Tulip Tree
Black Walnut	Red Maple	White Ash
Chestnut Oak	Sassafras	White Oak

### ESSENTIAL TOPICS:

- Measure tree height using a Biltmore stick and volume in board feet **(MS ONLY)**
- Identify & learn about the common trees on the tree species list
- Learn vocabulary in Leaf Characteristics resource
- Be able to identify trees using the tree key
- Learn about a variety of forest products & how they are used
- Understand the basic process of making paper, veneer, and lumber
- Learn the tools used by foresters and loggers



### SAMPLE QUESTIONS:

1. An ornamental variety of this tree \_\_\_\_\_ has been developed for nursery use. Why?

Tree Name: **ANSWER: Common Honeylocust**

- A) Leaves turn red in fall      B) Resistant to rot      C) Does not produce seed pods      **D) Has no thorns**

2. What is produced during the first cut at the sawmill when the rounded sides are removed?

- A) Sawyer      B) Quarter rounds      **C) Slabs**      D) Half rounds