Introduction to Forestry (Part of Ag Science II)

Instructional Framework

An instructional framework provides educators with a list of benchmark statements aligned to Common Core and national content area standards for a given course or program. The Missouri Introduction to Forestry Instructional Framework lists a sequence of content, organized into distinct units of instruction. Sample activities and potential Common Core related enhancements are provided.

	Common Core Standards	National Standards (AFNR)	Activities (already in the Curriculum)	Enhancements (if done, would add an additional standard)
A. Importance of Forest Resources				
1. Identify the important benefits from the Missouri forest industry and available careers in forestry.			1. Compare the responsibilities and benefits of classifying timber land as Forest Crop Land.	
2. Identify common Missouri trees.			1. Report over the common trees of Missouri, their uses, and the areas of which they grow.	
3. Describe how to plant and care for seedlings.	N-Q.1		1. Research the best trees to plant and then plant the trees.	
4. Describe the safe use of forest tools.				

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5. Measure standing timber and logs by board-foot volume and cord volume.	N-Q.1		1. Measuring logs for lumber, fuel/pulp, standing timber, and volume of standing trees.	
6. Analyze how timber stand improvement (TSI) can improve forest production.	N-Q.1		1. Determining TSI 2. Reading of silvicides and herbicide labels.	1. Assign students as individuals or in teams, to make up a TSI plan for a given woodlot.
7. Identify the factors to consider in growing and marketing Christmas trees.	N-Q.1		1. Compare and Contrast marketing methods for your trees. 2. Determine profit on trees	1. Develop a poster or commercial to market your trees.
8. Describe the principles of walnut production.	N-Q.1		1. Pros and cons of planting walnuts 2. Researching of walnut diseases 3. Determining returns/profit on walnuts	

Codes for Common Core Mathematics are:

- N = Number and Quantity
- A = Algebra
- F = Functions
- G = Geometry
- S = Statistics and Probability

Codes for Common Core English Language Arts and Literacy are:

- RL = Reading for Literature
- RI = Reading for Informational Text
- RST = Reading for Literacy in Science and Technical Subjects
- RH = Reading for Literacy in History/Social Studies
- W = Writing
- WHST = Writing for Literacy in History/Social Studies, Science, and Technical Subjects
- SL = Speaking and Listening
- L = Language