

# Forestry Alignment Checklist

Lesson	Task	Met (Y/N)	ACOS #	Standard
<b>Foundational Standards</b>				
1.07, 6.02, 6.03			1	Incorporate safety procedures in handling, operating, and maintaining tools and machinery; handling materials; utilizing personal protective equipment; maintaining a safe work area; and handling hazardous materials and forces.
			<b>Notes</b>	
8.01, 8.02, 8.03, 8.04, 8.05, 8.06, 8.07			2	Demonstrate effective workplace and employability skills, including communication, awareness of diversity, positive work ethic, problem-solving, time management, and teamwork.
			<b>Notes</b>	
8.01, 8.02, 8.03, 8.04, 8.05, 8.06, 8.07			3	Explore the range of careers available in the field and investigate their educational requirements, and demonstrate job-seeking skills including resume-writing and interviewing.
			<b>Notes</b>	
Student Orientation			4	Demonstrate digital literacy by using digital and electronic tools appropriately, safely, and ethically.
			<b>Notes</b>	
8.07			5	Participate in a Career Technical Student Organization (CTSO) to increase knowledge and skills and to enhance leadership and teamwork.
			<b>Notes</b>	
8.07			6	Participate in Supervised Agricultural Experiences and/or work-based, experiential, and service learning.
			<b>Notes</b>	

Safety				
1.06			1	Identify potential hazards to individuals working in Alabama forests. Examples: topographic hazards, venomous snakes, stinging insects, poisonous plants
			<b>Notes</b>	
1.07			1a	Describe methods of avoiding potential hazards in Alabama forests.
			<b>Notes</b>	
History				
1.01, 1.02, 1.03, 1.04, 1.05			2	Describe historical events that have influenced forestry in Alabama and the United States.
			<b>Notes</b>	
Dendrology				
2.01, 2.02			3	Describe the parts of a tree and their functions.
			<b>Notes</b>	
2.05, 2.06			4	Identify common tree species of Alabama by their common and scientific names.
			<b>Notes</b>	
2.03, 2.04			4a	Compare and contrast characteristics of hardwood and softwood trees, and gymnosperms and angiosperms.
			<b>Notes</b>	
Silviculture Practices				
3.06			5	Compare and contrast artificial and natural reforestation methods.
			<b>Notes</b>	
3.07			5a	Identify sources of tree seedlings.
			<b>Notes</b>	
3.07			5b	Describe proper methods for the handling and care of seedlings.

<b>Notes</b>				
3.07			5c	Compare methods of hand and mechanical planting of seedlings, discussing the advantages and disadvantages of each method.
<b>Notes</b>				
3.03, 3.04			6	Obtain and share information on the importance of prescribed burning.
<b>Notes</b>				
3.01			7	Compare and contrast habitats of major forest species in Alabama.
<b>Notes</b>				
3.02, 3.05, 6.04			8	Explain the various management objectives of forest landowners. Examples: timber, wildlife, recreation, aesthetics
<b>Notes</b>				
3.06			9	Identify factors that should be considered before establishing a forest.
<b>Notes</b>				
6.01			10	Compare methods of harvesting timber, including clear, selection, shelterwood, and seed tree cutting.
<b>Notes</b>				
<b>Silviculture Practices</b>				
4.01, 4.02			11	Describe types of forest fires and explain the methods of controlling them.
<b>Notes</b>				
4.01, 4.02			11a	Describe the concepts and methods involved in scheduling and conducting controlled burns.
<b>Notes</b>				
4.03			12	Identify the major insects and diseases that damage forest trees in Alabama and explain methods of controlling them.
<b>Notes</b>				
4.04			13	Identify undesirable and invasive plant species and explain methods of controlling them.
<b>Notes</b>				

4.05			14	Research and share information about conservation easements, land trusts, and other means of preserving forests and other wild areas.
			<b>Notes</b>	
<b>Forestry Equipment</b>				
6.01			15	Identify types of tree-harvesting equipment and explain their uses.
			<b>Notes</b>	
6.02			16	Demonstrate the use of forestry hand tools, including pruning saws, bow saws, loppers, and brush cutters.
			<b>Notes</b>	
6.03			17	Demonstrate procedures for adjusting, operating, and maintaining a chain saw.
			<b>Notes</b>	
<b>Forest Products and Marketing</b>				
7.01			18	Describe chemical and physical properties of wood.
			<b>Notes</b>	
7.02			19	Identify primary and secondary products produced from wood. Examples: primary - lumber, timber; secondary - paper, pine straw
			<b>Notes</b>	
7.03			20	Analyze characteristics of lumber to determine grade.
			<b>Notes</b>	
7.04			21	Describe wood treatment processes and discuss environmental issues involved in their use.
			<b>Notes</b>	
<b>Tree Measurement</b>				
5.01			22	Demonstrate the use of tree measurement tools.
			<b>Notes</b>	

5.01, 5.02, 5.03, 5.04, 5.05			22a	Describe techniques for measuring tree diameter at breast height (DBH.)
<b>Notes</b>				
5.01, 5.02, 5.03, 5.04, 5.05			22b	Describe techniques for measuring total tree height.
<b>Notes</b>				
5.01, 5.02, 5.03, 5.04, 5.05			22c	Describe techniques for measuring pulpwood at marketable height.
<b>Notes</b>				
5.01, 5.02, 5.03, 5.04, 5.05			22d	Describe techniques for measuring saw logs.
<b>Notes</b>				
<b>Mapping</b>				
5.06, 5.07			23	Interpret map characteristics and features.
<b>Notes</b>				
5.06, 5.07			23a	Demonstrate the use of mapping tools, including direction, elevation, and distance-reading tools.
<b>Notes</b>				
5.08			24	Compare and contrast the types and functions of precision and advanced technologies that are used in mapping of the forest. Examples: GIS, GPS, drones
<b>Notes</b>				