

Standards Correlations

Community Forestry and Tree Management (8048)

Task	SOL Correlations	AFNR Standards
Demonstrating Personal Qualities and Abilities		
Demonstrate creativity and innovation.	<p>English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1</p> <p>Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10*</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1</p>	
Demonstrate critical thinking and problem solving.	<p>English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8</p>	

Task	SOL Correlations	AFNR Standards
	<p>History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1</p> <p>Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10*</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1</p>	
Demonstrate initiative and self-direction.	<p>English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p>	
Demonstrate integrity.	<p>English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5</p> <p>History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p>	
Demonstrate work ethic.	<p>English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1</p> <p>History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p> <p>Science: CH.1</p>	
Demonstrating Interpersonal Skills		

Task	SOL Correlations	AFNR Standards
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1	
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1	
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrating Professional Competencies		
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5	

Task	SOL Correlations	AFNR Standards
	History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4	
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1	
Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8	

Task	SOL Correlations	AFNR Standards
Demonstrate information-literacy skills.	<p>English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p> <p>Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10*</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1</p>	
Demonstrate an understanding of information security.	<p>English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p> <p>Mathematics: COM.10</p>	
Maintain working knowledge of current information-technology (IT) systems.	<p>English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9</p> <p>History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1</p> <p>Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17</p> <p>Science: BIO.1, CH.1, ES.1, PH.1</p>	

Task	SOL Correlations	AFNR Standards
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1	
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7	

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	History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1	
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
Examining All Aspects of an Industry		
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16	
Examine aspects of management within an industry/organization.		
Examine aspects of financial responsibility within an industry/organization.		
Examine technical and production skills required of workers within an industry/organization.		
Examine principles of technology that underlie an industry/organization.		
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16	

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Examine community issues related to an industry/organization.	History and Social Science: GOVT.16	
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16	
Addressing Elements of Student Life		
Identify the purposes and goals of the student organization.		
Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.		
Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.		
Identify Internet safety issues and procedures for complying with acceptable use standards.		
Exploring Work-Based Learning		
Identify the types of work-based learning (WBL) opportunities.		
Reflect on lessons learned during the WBL experience.		

Task	SOL Correlations	AFNR Standards
Explore career opportunities related to the WBL experience.		
Participate in a WBL experience, when appropriate.		
Exploring Leadership Skills and FFA Membership		
Identify the role of supervised agricultural experiences (SAEs) in agricultural education.	English: 11.3, 11.5, 11.8, 12.3, 12.5, 12.8	CRP.02.02 CRP.02.03
Participate in an SAE.	English: 11.1, 11.5, 11.6, 11.7, 11.8, 12.1, 12.5, 12.6, 12.7, 12.8	CRP.02.02 CRP.02.03
Identify the benefits and responsibilities of FFA membership.	English: 11.5, 11.6, 11.8, 12.5, 12.6, 12.8 Science: BIO.4, BIO.8	CRP.09.01
Describe leadership characteristics and opportunities as they relate to agriculture and FFA.	English: 11.5, 12.5	CRP.09.01
Apply for an FFA degree and/or an agricultural proficiency award.	English: 11.5, 11.8, 12.5, 12.8	
Exploring Community Forestry and Its Benefits		
Define terms related to community forestry.	English: 11.3, 11.5, 12.3, 12.5	
Compare aspects of the rural-urban continuum.	English: 11.5, 12.5	NRS.02.02
Identify stakeholders of community forestry and tree management.	English: 11.5, 12.5	NRS.02.03
Identify trade-offs involved when managing trees and forests.	English: 11.5, 12.5	
Explain the value of trees.	English: 11.3, 11.5, 11.6, 11.7, 12.3, 12.5, 12.6, 12.7 Science: BIO.8	NRS.02.02 NRS.02.03
Explain the economic value of trees.	English: 11.5, 12.5 Science: BIO.8	NRS.02.04

Task	SOL Correlations	AFNR Standards
Classifying and Identifying Trees		
Describe the ways trees are classified and named.	English: 11.5, 12.5 Science: BIO.4, BIO.6	PS.02.01 NRS.01.01 NRS.01.02
Identify native and nonnative tree species.	English: 11.5, 11.8, 12.5, 12.8 Science: BIO.4, BIO.6, BIO.8	NRS.01.02 NRS.04.03
Explaining Tree Biology		
Explain the anatomy of trees.	English: 11.5, 12.5 Science: BIO.4	NRS.01.02 PS.02.02
Explain the physiology of trees.	English: 11.3, 11.5, 12.3, 12.5 Science: BIO.2	NRS.01.02 PS.02.02 PS.02.03
Determine the age and growth rate of a tree.	English: 11.5, 12.5 Science: BIO.4, BIO.8	PS.02.02
Examining Environmental Factors that Influence Tree Growth		
Explain the environmental factors that influence tree growth.	English: 11.5, 12.5 Science: BIO.8	PS.01.01
Explain site factors affecting the establishment of trees in a developed area.	English: 11.5, 12.5	PS.03.02
Explain the genetic characteristics of tree species that are able to thrive in urban areas.	English: 11.3, 11.5, 11.6, 11.7, 12.3, 12.5, 12.6, 12.7 Science: BIO.7	NRS.04.01
Describe the desirable and undesirable characteristics of trees for specific urban landscape types.	English: 11.5, 12.5	NRS.02.02
Exploring Management of Trees in Urbanized Areas		
Compare the site characteristics of various urbanized areas where trees grow.	English: 11.5, 12.5	NRS.04.01

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Create a landscape plan that incorporates trees.	English: 11.5, 12.5	NRS.03.02 NRS.04.01 PS.04.01 PS.04.02
Evaluate a landscape plan that incorporates trees.	English: 11.5, 12.5	NRS.03.02 NRS.04.01 PS.04.01 PS.04.02
Evaluate a land development plan that may affect trees and other natural resources.	English: 11.5, 12.5	NRS.03.02 NRS.04.01 PS.04.01 PS.04.02
Interpret community forestry plans.	English: 11.5, 12.5	NRS.02.02 NRS.04.01 PS.04.01 PS.04.02
Examining Tree Care Safety		
Describe safety considerations for tree care.	English: 11.5, 12.5	CS.03.03 CS.03.04
Comply with federal, state, and local safety and legal requirements in the operation of all tools, machinery, and equipment.	English: 11.5, 11.8, 12.5, 12.8 History and Social Science: VUS 8, 14; GOVT 7, 8, 9	PST.01.02 PST.02.02 CS.03.03 CS.03.04
Operate machinery and equipment.	English: 11.5, 12.5	PST.01.02 PST.02.01 PST.02.02 CS.03.03 CS.03.04
Maintain equipment and machinery according to manufacturer recommendations.	English: 11.5, 11.6, 11.7, 12.5, 12.6, 12.7	PST.01.02 PST.01.03 PST.02.01 PST.02.02

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		PST.03.01 CS.03.03 CS.03.04
Identify the parts of a chain saw.	English: 11.5, 12.5	CS.03.03 CS.03.04
Explain procedures for felling trees.	English: 11.5, 12.5	PST.01.02 PST.02.02 NRS.03.01 CS.03.04 CS.03.04
Explain bucking and limbing techniques to ensure worker safety.	English: 11.5, 12.5	NRS.03.01 NRS.04.01
Outline procedures for supervising the loading and unloading of logs.	English: 11.5, 11.6, 11.7, 12.5, 12.6, 12.7	CS.03.04
Interpret pesticide labels.	English: 11.5, 12.5	PS.03.03
Interpret safety data sheets (SDS).	English: 11.5, 12.5 Science: CH.1	PS.03.03
Maintaining and Caring for Trees		
Explain the benefits of tree maintenance.	English: 11.5, 12.5	NRS.02.05 NRS.03.01 NRS.04.01
Identify conditions that signal a need for tree care.	English: 11.5, 12.5	NRS.04.01
Describe various types of tree care.	English: 11.5, 12.5	NRS.04.01 PS.01.03
Describe common maintenance and risk management strategies used to mitigate tree nuisances and hazards.	English: 11.5, 12.5	NRS.04.01
Describing the Removal and Utilization of Trees		
Describe tree removal.	English: 11.5, 12.5	NRS.03.01

Task	SOL Correlations	AFNR Standards
Identify suitability of trees for post-removal utilization.	English: 11.5, 12.5	NRS.03.01
Explain how urban trees can be used after removal.	English: 11.5, 12.5	NRS.03.01
Investigating Tree Disorders		
Identify types of tree disorders.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02
Identify types of tree stressors.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02
Describe the consequences of acute and chronic tree stressors.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02
Diagnose tree disorders.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02
Exploring Pests and Diseases		
Identify tree pathogens that serve as disease agents in Virginia's common trees.	English: 11.5, 12.5 Science: BIO.4, BIO.8	NRS.04.02 NRS.04.03 PS.03.02
Identify signs and symptoms of tree disease.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02
Explain how tree diseases are transmitted.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02
Explain the importance of sanitation in preventing tree diseases and disease management.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02
Identify categories of pests.	English: 11.5, 12.5	NRS.04.02

Task	SOL Correlations	AFNR Standards
	Science: BIO.4	NRS.04.03 PS.03.02
Describe conditions that encourage pest infestation.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02
Identify signs and symptoms of an insect infestation.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02
Evaluate pest damage to trees in urban forests, and how this affects ecosystem services.	English: 11.5, 12.5	NRS.04.02 NRS.04.03
Explain IPM.	English: 11.5, 12.5	NRS.04.02 NRS.04.03 PS.03.02 PS.03.03
Explain management concerns related to non-insect pests.	English: 11.5, 12.5	NRS.04.02
Exploring Careers in Community Forestry and Tree Management		
Identify career opportunities in community forestry and tree management.	English: 11.5, 11.8, 12.5, 12.8	CS.05.01 CS.05.02
Research postsecondary education requirements for careers related to community forestry and tree management.	English: 11.5, 11.8, 12.5, 12.8	CS.05.01 CS.05.02