

Standards Correlations

Applied Agricultural Concepts

8072 18 weeks

8073 36 weeks

Task	SOL Correlations
Demonstrating Personal Qualities and Abilities	
Demonstrate creativity and innovation.	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 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 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* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1
Demonstrate critical thinking and problem solving.	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 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 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*

Task	SOL Correlations
	Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1
Demonstrate initiative and self-direction.	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 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 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
Demonstrate work ethic.	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, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1
Demonstrating Interpersonal Skills	
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

Task	SOL Correlations
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 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
Demonstrate information-literacy skills.	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 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, 7.8, 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* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1

Task	SOL Correlations
Demonstrate an understanding of information security.	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 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: COM.10
Maintain working knowledge of current information-technology (IT) systems.	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 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: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1
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 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1

Task	SOL Correlations
	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
Examine community issues related to an industry/organization.	History and Social Science: GOVT.16

Task	SOL Correlations
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
Explore career opportunities related to the WBL experience.	
Participate in a WBL experience, when appropriate.	
Exploring Leadership Opportunities through FFA	
Identify the role of supervised agricultural experiences (SAEs) in agricultural education.	English: 9.3, 9.5, 10.3, 10.5
Participate in an SAE.	English: 9.5, 9.8, 10.5, 10.8
Identify the benefits and responsibilities of FFA membership.	English: 9.5, 9.6, 9.7, 9.8, 10.5, 10.6, 10.7, 10.8
Describe leadership characteristics and opportunities as they relate to agriculture and FFA.	English: 9.5, 10.5 History and Social Science: VUS.8, VUS.9, VUS.10, VUS.11, WHII.8, WHII.10, WHII.11
Apply for an FFA degree and/or an agricultural proficiency award.	English: 9.5, 10.5
Identifying the Purposes and Roles of Agricultural Agencies	
Explain the purposes and roles of federal agricultural agencies.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4,5 VUS.8-10

Task	SOL Correlations
	GOVT.7,9,15
Explain the purposes and roles of state agricultural agencies.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4,5 VUS.8-10, GOVT.7,9,15
Identify non-governmental agricultural partners and their roles in advocacy in the community.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4,5, VUS.8-10
Applying Safety Practices in the Agricultural Mechanics Lab/Workshop	
Identify lab and maintenance safety procedures and protocols.	English: 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Sciences: GOVT.16
Demonstrate safe practices in the agricultural mechanics lab/workshop.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16
Identify marked safety areas and posted evacuation routes.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16
Identify the location and use of eyewash stations.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8
Demonstrate knowledge of safety data sheets (SDS).	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences:WG.2,4,5; WHII.14; VUS.8-14; GOVT.7-9,15

Task	SOL Correlations
Explain the use of chemicals.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4,5; VUS.8-10,14; GOVT.7,9,15
Demonstrate the use of standard and metric hand tools.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.16
Demonstrate the use of power tools and equipment.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.16
Demonstrate the use of precision standard and metric measuring tools.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.16
Demonstrate the use of protective clothing and equipment.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.16
Explain the use of fire protection equipment.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: GOVT.7-9,16
Identify hazards associated with using and servicing farm machinery and equipment.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16
Identifying the Components of Soil	
Identify parts of a soil profile.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5
Identify types of soil particles.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5

Task	SOL Correlations
Describe characteristics of different soil types.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5
List the major soils found in Virginia.	English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 History and Social Sciences: WG.2,4,5
Interpreting Soil Fertility and Test Results	
Explain the purpose of testing soil fertility.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5
Conduct a soil test.	History and Social Sciences: WG.1-2,4,5; WHI.1; WHII.1; VUS.1; GOVT.1
Interpret results of a soil test.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1-2,4,5; WHI.1; WHII.1; VUS.1; GOVT.1
Explain the purposes for amending the soil.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1-2,4,5
Describe Virginia laws as they apply to fertilizer application on turf and pasture.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5; VUS.14; GOVT.8
Managing Soil Erosion	
List types of soil erosion.	English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 History and Social Sciences: WG.2,4,5
Explain the consequences of soil erosion.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1-2,4,5; WHI.1;WHII.1,14; VUS.1,14; GOVT.1

Task	SOL Correlations
Identify methods of controlling erosion.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5; WHIL.14; VUS.14
Explain the use of erosion control methods used in agriculture.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4,5; WHI.2; WHIL.14; VUS.14
Establishing Turf and Forages	
Describe methods of seeding.	History and Social Sciences: WG.2,4
Prepare the seedbed for a lawn, pasture, or hayfield.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Select seed.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Seed a seedbed.	History and Social Sciences: WG.2,4
Irrigate a new lawn seedbed.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2; WHI.2
Managing Turf and Forages	
Identify techniques for managing a lawn or pasture.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2
Describe service and maintenance of lawn or pasture equipment.	History and Social Sciences: WG.2,4

Task	SOL Correlations
Describe common problems in turf and forage management.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Design a year-round turf and forage management plan.	English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Sciences: WG.1,2,4; WHI.1;WHII.1; VUS.1;GOVT.1
Managing Trees and Shrubs	
Identify common trees and shrubs using techniques to determine the species of a tree or woody plant.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2-4
Explain the importance of pruning.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Identify pruning equipment, supplies, and best management practices.	History and Social Sciences: WG.2,4
Describe the process of planting a tree and a shrub.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Create a management plan for trees and shrubs.	English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Sciences: WG.1,2,4; WHI.1; WHII.1; VUS.1;GOVT.1
Implement a management plan for trees and shrubs.	English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 2.5 History and Social Sciences: WG.2,4

Task	SOL Correlations
Designing a Garden Layout	
Analyze the location of a garden plot.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1,2,4; WHI.1; WHIL.1; VUS.1; GOVT.1
Calculate food needs for a family.	
Estimate the yield of specific garden crops.	
Determine the location of crops in the garden plot.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Planting the Garden	
Select seed and plant varieties.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Prepare the seedbed for a garden or soilless growing medium.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Plant seeds and vegetable plugs.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Managing the Garden	
Determine water and mulch needs for the garden.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Select the appropriate time and method to water the garden.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4

Task	SOL Correlations
Manage vegetable and fruit plants in the garden.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Harvesting the Garden	
Identify the characteristics of ripened fruits and vegetables.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
List factors that affect the quality of fruits and vegetables.	English: 9.6, 9.7, 10.5, 10.6, 10.7, 11.5, 11.6, 11.7, 12.5, 12.6, 12.7 History and Social Sciences: WG.2,4
Describe techniques for harvesting fruits and vegetables.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Evaluate fruits and vegetables for harvest.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Implementing Pest Management	
Identify common agricultural pests for plants and animals.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Explain the life cycle of pests.	English: 9.5, 10.5, 11.5, 12.5
Describe integrated pest management (IPM).	English: 9.5, 9.6, 9.7, 10.5, 10.6, 10.7, 11.5, 11.6, 11.7, 12.5, 12.6, 12.7 History and Social Sciences: WG.2,4; GOVT.15
Describe the major types of agricultural pesticides.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2

Task	SOL Correlations
Interpret pesticide labels.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1; WHI.1; WHIL.1; VUS.1; GOVT.1
Manage agricultural pests using IPM.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Applying Principles of Food Safety	
Define <i>food safety</i> .	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: WG.2,4; VUS.14; GOVT.7-9,15
Prepare food products for consumption or preservation.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.2,4
Describe the production and handling of food products.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4; VUS.14; GOVT.7-9,15
Describe storage of different types of food products.	English: 9.5, 10.5, 11.5, 12.5
Develop a strategy to create food products that meet a consumer trend in a specific market.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.2,4; WHI.1;WHIL.1;VUS.1; GOVT.1,15
Describe food security issues.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: WG.2,4;WHIL.1; VUS.14;GOVT.15
Processing Fruits and Vegetables	

Task	SOL Correlations
Outline the procedure for processing fruits and vegetables.	English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 History and Social Sciences: WG.2,4
Identify fruit and vegetable varieties.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.4
Describe methods of preserving fruits and vegetables.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: WG.2,4
Demonstrate a method of food preservation.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WG.4
Examining the Livestock and Poultry Industry	
Research the history of the domestication of farm animals.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: WG.2,4; WHI.2
Explain the function of livestock.	English: 9.5, 10.5, 11.5, 12.5
Describe the scope and importance of the livestock and poultry industry in Virginia and the United States.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: VUS.3,6-8,10

Task	SOL Correlations
Analyze commercially important livestock species in Virginia.	English: 9.5, 10.5, 11.5, 12.5
Describe issues related to animal welfare and animal rights.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 History and Social Sciences: VUS.8,13-14; GOVT.16
Examine the role of market animal projects and its relevance in the livestock industry.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: VUS14
Identifying and Processing Meats	
Identify major cuts of meat.	English: 9.5, 10.5, 11.5, 12.5
List specialized meat products.	English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7
Outline the procedure for animal slaughter.	English: 9.5, 9.6, 9.7, 10.5, 10.6, 10.7, 11.5, 11.6, 11.7, 12.5, 12.6, 12.7 History and Social Sciences: GOVT. 7-9,16
Inspecting, Grading, and Labeling Meats	
Explain the purposes of meat inspection.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: VUS.8,13-14; GOVT. 7-9
Describe the types of meat inspection.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8
Interpret a meat product label.	English: 9.5, 10.5, 11.5, 12.5

Task	SOL Correlations
	History and Social Sciences: WG.1; WHI.1; WHIL.1; VUS.1; GOVT.1
List factors to consider when selecting meats.	English: 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6
Rank cuts of meat according to quality grade.	
Preserving Meats	
Describe methods for preserving meat.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate meat-preservation processes.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8
Performing Electrical Operations	
Explain common electrical terms.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5 Mathematics: A.1, AII.3
Identify safety rules associated with the use of electrical appliances and equipment.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16
Calculate cost of power consumption.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WG.1;WHI.1;WHIL.1; VUS.1; GOVT.1
Demonstrate electrical shock emergency procedures.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16 Mathematics: A.1, A.4,

Task	SOL Correlations
Identify electrical symbols.	
Identify series and parallel circuits.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5
Identify tools, equipment, and supplies used in the construction and repair of electrical circuits and equipment.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate wiring practices.	
Install an electrical fixture.	
Evaluate electrical problems.	English: 9.5, 10.5, 11.5, 12.5
Performing Plumbing Operations	
Identify safety rules associated with the use of plumbing equipment.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16
Identify tools, equipment, and supplies used for the installation of plumbing fixtures.	English: 9.5, 10.5, 11.5, 12.5
Identify pipe and pipe fittings.	English: 9.5, 10.5, 11.5, 12.5
Determine the length of pipe to be cut.	English: 9.5, 10.5, 11.5, 12.5
Combine lengths of pipe.	English: 9.5, 10.5, 11.5, 12.5
Performing Woodworking/Carpentry Operations	

Task	SOL Correlations
Identify tools, equipment, and materials used in woodworking/carpentry.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate the use of woodworking/carpentry equipment.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences:GOVT.16
Determine materials needed for a project.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate layout procedures for a project.	
Identify fasteners.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate fastening techniques.	English: 9.5, 10.5, 11.5, 12.5
Construct a woodworking/carpentry project.	English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Sciences: WG.1; WHI.1; WHIL.1; VUS.1; GOVT.1
Apply a finish to a woodworking/carpentry project.	English: 9.5, 10.5, 11.5, 12.5
Performing Metalworking Operations	
Identify tools, equipment, and materials used in metalworking.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate the use of metalworking tools and equipment.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT.16

Task	SOL Correlations
Demonstrate a metalworking process.	English: 9.5, 10.5, 11.5, 12.5
Apply a finish to a metalworking project.	English: 9.5, 10.5, 11.5, 12.5
Exploring the Use of Drones in Agriculture	
Explain the uses of drones in agriculture.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: WHII.14; VUS.14
Research the types of drones used in agriculture.	English: 9.5, 9.8, 10.5, 10.8, 11.5, 11.8, 12.5, 12.8 History and Social Sciences: WHII.14; VUS.14
Identify safety precautions and standard operating procedures for flying drones.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT. 16
Describe the Federal Aviation Administration (FAA) Part 107 guidelines.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT. 7,9
Prepare a drone for flight.	English: 9.5, 10.5, 11.5, 12.5
Fly a drone, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 9.5, 10.5, 11.5, 12.5 History and Social Sciences: GOVT. 16