

# Standards Correlations

## Applied Agricultural Concepts (8072, 8073)

Task	SOL Correlations
<b>Demonstrating Personal Qualities and Abilities</b>	
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> <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,</p>

Task	SOL Correlations
	DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* 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
<b>Demonstrating Interpersonal Skills</b>	
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

<b>Task</b>	<b>SOL Correlations</b>
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
<b>Demonstrating Professional Competencies</b>	
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

Task	SOL Correlations
	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.	<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>
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

Task	SOL Correlations
	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 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
<b>Examining All Aspects of an Industry</b>	

<b>Task</b>	<b>SOL Correlations</b>
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
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16
<b>Addressing Elements of Student Life</b>	
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.	
<b>Exploring Work-Based Learning</b>	

<b>Task</b>	<b>SOL Correlations</b>
Identify the types of work-based learning (WBL) opportunities.	
Reflect on lessons learned during the WBL experience.	
Explore career opportunities related to the WBL experience.	
Participate in a WBL experience, when appropriate.	
<b>Exploring Leadership Opportunities through FFA</b>	
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
<b>Identifying the Purposes and Roles of Agricultural Agencies</b>	
Explain the purposes and roles of federal agricultural agencies.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: GOVT.7, GOVT.9, GOVT.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  History and Social Science: GOVT.8, GOVT.9, GOVT.15
Identify non-governmental agricultural partners and their roles in advocacy in the community.	English: 9.5, 10.5, 11.5, 12.5  History and Social Science: GOVT.8, GOVT.9, GOVT.15
<b>Applying Safety Practices in the Agricultural Mechanics Lab/Workshop</b>	

<b>Task</b>	<b>SOL Correlations</b>
Identify marked safety areas.	English: 9.5, 10.5, 11.5, 12.5 Science: CH.1
Identify the location and use of eyewash stations.	English: 9.5, 10.5, 11.5, 12.5 Science: CH.1
Identify the location of the posted evacuation routes.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate knowledge of safety data sheets (SDS).	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.15 Science: CH.1
Explain the safe use of chemicals.	English: 9.5, 10.5, 11.5, 12.5 Science: CH.1
Demonstrate the safe use of standard and metric hand tools.	
Demonstrate the safe use of power tools.	
Demonstrate the safe use of precision standard and metric measuring tools.	
Demonstrate the safe use of protective clothing and equipment.	
Demonstrate the safe use of fire protection equipment.	
Demonstrate the safe use of equipment.	
Demonstrate safe practices in the agricultural mechanics lab/workshop.	
<b>Identifying the Components of Soil</b>	
Identify parts of a soil profile.	English: 9.5, 10.5, 11.5, 12.5



<b>Task</b>	<b>SOL Correlations</b>
	Science: ES.8
Identify types of soil particles.	English: 9.5, 10.5, 11.5, 12.5 Science: ES.1, ES.8
Describe characteristics of different soil types.	English: 9.5, 10.5, 11.5, 12.5 Science: ES.1, ES.8
List the major soils found in Virginia.	English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 Science: ES.8
<b>Interpreting Soil Fertility and Test Results</b>	
Explain the purpose of testing soil fertility.	English: 9.5, 10.5, 11.5, 12.5
Conduct a soil test.	English: 9.5, 10.5, 11.5, 12.5
Interpret results of a soil test.	English: 9.5, 10.5, 11.5, 12.5
Explain the purposes for amending the soil.	English: 9.5, 10.5, 11.5, 12.5
Describe Virginia laws as they apply to fertilizer application on turf and pasture.	English: 9.5, 10.5, 11.5, 12.5
<b>Conserving and Managing Soil</b>	
List types of soil erosion.	English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7 Science: ES.8
Explain the consequences of soil erosion.	English: 9.5, 10.5, 11.5, 12.5 Science: ES.8
Identify methods of controlling erosion.	English: 9.5, 10.5, 11.5, 12.5

Task	SOL Correlations
	History and Social Science: WG.1, WG.2 Science: ES.8
Explain the use of erosion control techniques and methods used in agriculture.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: WG.7
<b>Establishing a Lawn, Pasture, or Hayfield</b>	
Describe methods of seeding.	English: 9.5, 10.5, 11.5, 12.5
Prepare the seedbed for a lawn, pasture, or hayfield.	History and Social Science: WG.1, WG.2
Select seed.	English: 9.5, 10.5, 11.5, 12.5
Seed a seedbed.	English: 9.5, 10.5, 11.5, 12.5
Irrigate a new lawn seedbed.	English: 9.5, 10.5, 11.5, 12.5
<b>Managing an Established Lawn or Pasture</b>	
Identify techniques for managing a lawn or pasture.	English: 9.5, 10.5, 11.5, 12.5
Describe service and maintenance of agricultural equipment.	English: 9.5, 10.5, 11.5, 12.5
Describe common problems in grass management.	English: 9.5, 10.5, 11.5, 12.5
Design a year-round grass management plan.	English: 9.1, 10.1, 11.1, 12.1
<b>Managing Trees and Shrubs</b>	
Identify common trees and shrubs.	English: 9.5, 10.5, 11.5, 12.5 Science: BIO.8
Explain the importance of pruning.	English: 9.5, 10.5, 11.5, 12.5
Identify pruning equipment, supplies, and best-management practices.	English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5
Plant a tree and a shrub.	English: 9.5, 10.5, 11.5, 12.5
Create a management plan for trees and shrubs.	English: 9.1, 10.1, 11.1, 12.1

<b>Task</b>	<b>SOL Correlations</b>
Implement a management plan for trees and shrubs.	
<b>Designing a Garden Layout</b>	
Analyze the location of a garden plot.	English: 9.5, 10.5, 11.5, 12.5
Calculate food needs for a family.	
Estimate the yield of specific garden crops.	Mathematics: A.1
Determine the location of crops in the garden plot.	English: 9.5, 10.5, 11.5, 12.5
<b>Planting the Garden</b>	
Select seed and plant varieties.	
Prepare the seedbed for a garden.	
Plant seeds and vegetable plugs.	English: 9.5, 10.5, 11.5, 12.5
<b>Managing the Garden</b>	
Determine water and mulch needs for the garden.	
Select appropriate time and method to water the garden.	English: 9.5, 10.5, 11.5, 12.5
Manage vegetable and fruit plants in the garden.	
<b>Managing Agricultural Pests</b>	
Identify common agricultural pests.	English: 9.5, 10.5, 11.5, 12.5 Science: BIO.8
Explain the life cycle of pests.	English: 9.5, 10.5, 11.5, 12.5 Science: BIO.8
Describe integrated pest management (IPM).	English: 9.5, 10.5, 11.5, 12.5 Science: BIO.8
Describe the major types of agricultural pesticides.	English: 9.5, 10.5, 11.5, 12.5

<b>Task</b>	<b>SOL Correlations</b>
Interpret pesticide labels.	English: 9.5, 10.5, 11.5, 12.5 Science: CH.1
Manage agricultural pests using integrated pest management.	English: 9.5, 10.5, 11.5, 12.5
<b>Harvesting the Garden</b>	
Identify characteristics of ripened vegetables and fruits.	English: 9.5, 10.5, 11.5, 12.5
List factors that affect the quality of vegetables and fruits.	English: 9.6, 9.7, 10.6, 10.7, 11.6, 11.7, 12.6, 12.7
Describe techniques for harvesting fruits and vegetables.	English: 9.5, 10.5, 11.5, 12.5
Evaluate fruits and vegetables for harvest.	
<b>Applying Principles of Food Safety</b>	
Define <i>food safety</i> .	English: 9.3, 10.3, 11.3, 12.3 History and Social Science: GOVT.9
Prepare food products for consumption or preservation.	English: 9.5, 10.5, 11.5, 12.5
Describe techniques and procedures for the safe handling of food products.	English: 9.5, 10.5, 11.5, 12.5
Describe storage of types of food products.	English: 9.5, 10.5, 11.5, 12.5
Describe food security issues.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: VUS.14, WHII.14
<b>Processing Fruits and Vegetables</b>	
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
Identify fruit and vegetable varieties.	English: 9.5, 10.5, 11.5, 12.5
Describe methods of preserving fruits and vegetables.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate a method of preservation.	

<b>Task</b>	<b>SOL Correlations</b>
<b>Identifying and Processing Meats</b>	
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.	History and Social Science: GOVT.9
<b>Inspecting, Grading, and Labeling Meats</b>	
Explain the purposes of meat inspection.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.9, VUS.8
Describe the types of meat inspection.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: VUS.8
Interpret a meat product label.	
List factors to consider when selecting meats.	
Rank cuts of meat according to quality grade.	
<b>Preserving Meats</b>	
Describe methods for preserving meats.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate meat-preservation processes.	
<b>Performing Electrical Operations</b>	
Explain common electrical terms.	English: 9.5, 10.5, 11.5, 12.5 Science: PH.11
Identify safety rules associated with the use of electrical appliances and equipment.	English: 9.5, 10.5, 11.5, 12.5
Calculate cost of power consumption.	Mathematics: A.1
Demonstrate electrical shock emergency procedures.	

<b>Task</b>	<b>SOL Correlations</b>
Identify electrical symbols.	Science: PH.11
Identify series and parallel circuits.	Science: PH.11
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
Splice wires.	
Install an electrical fixture.	
Evaluate electrical problems.	English: 9.5, 10.5, 11.5, 12.5
<b>Performing Plumbing Operations</b>	
Identify safety rules associated with the use of plumbing equipment.	
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.	
<b>Performing Woodworking Operations</b>	
Demonstrate the safe use of woodworking equipment.	
Identify tools, equipment, and materials used in woodworking.	English: 9.5, 10.5, 11.5, 12.5
Determine materials needed for a project.	
Demonstrate layout procedures for a project.	
Identify fasteners.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate fastening techniques.	
Construct a woodworking project.	
Apply a finish to a woodworking project.	
<b>Performing Metalworking Operations</b>	

Task	SOL Correlations
Demonstrate the safe use of metalworking equipment.	
Identify tools, equipment, and materials used in metalworking.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate a metalworking process.	
Apply a finish to a metalworking project.	
<b>Examining the Livestock and Poultry Industry</b>	
Research the history of the domestication of farm animals.	English: 9.8, 10.8, 11.8, 12.8
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 the United States.	English: 9.5, 10.5, 11.5, 12.5
Analyze commercially important livestock breeds in Virginia.	English: 9.5, 10.5, 11.5, 12.5
Describe issues related to animal welfare and animal rights.	English: 9.5, 10.5, 11.5, 12.5
Examine the role of show animals in the development of brood stock.	English: 9.5, 10.5, 11.5, 12.5