

# Standards Correlations

## Agricultural Fabrication and Emerging Technologies (8019)

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
<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,</p>	

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
	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* 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>		

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</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	
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	

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	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	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content 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,</p>	

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
	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	

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
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>		
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.		

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
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.		



<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
Identify Internet safety issues and procedures for complying with acceptable use standards.		
<b>Exploring Work-Based Learning</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: 10.1, 10.5, 10.8, 11.1, 11.5, 11.8 History and Social Science: WHII 8; VUS 6, 8	
Participate in an SAE.	English: 10.1, 10.6, 10.7, 10.8, 11.1, 11.5, 11.6, 11.7, 11.8	
Identify the benefits and responsibilities of FFA membership.	English: 10.5, 10.8, 11.5, 11.8	
Describe leadership characteristics and opportunities as they relate to	English: 10.5, 11.5	

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
agriculture and FFA.		
Apply for an FFA degree and/or an agricultural proficiency award.	English: 10.5, 10.8, 11.5, 11.8	
<b>Orienting Students to Agricultural Machinery and Equipment Safety and Operation</b>		
Identify safety procedures and equipment necessary in agricultural fabrication and emerging technologies.		PST.01.02 PST.02.02
Apply laboratory safety instructions.		PST.01.02 PST.02.02
Explain emergency first-aid procedures.		PST.02.02
Identify the classifications of fires and the methods used to extinguish them.		PST.01.02 PST.02.02
Demonstrate lifting and carrying techniques.		PST.01.02
Report injuries.		PST.01.02 PST.02.02
Pass all safety exams with 100 percent accuracy.		PST.01.02

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
<b>Demonstrating Skills in Electricity</b>		
Describe scientific principles related to electricity.	English: 10.5, 11.5 Science: PH.11	PST.03.02
Identify basic electrical controls.	English: 10.5, 11.5 Science: PH.11	PST.03.02
Apply electrical terminology and measurement.	English: 10.5, 11.5 Science: PH.11	PST.03.02
Explain the electrical service system from generation to residential distribution.	English: 10.5, 11.5 Science: PH.11	PST.03.02
<b>Creating Metal Fabrication Plans</b>		
Identify welding symbols and weld symbols, according to the American Welding Society (AWS).	English: 10.5, 11.5	PST.01.03
Interpret drawings.	English: 10.5, 11.5	PST.01.03
Calculate the costs for a welding project.	English: 10.5, 11.5	PST.01.03
Lay out a project.		PST.01.03
<b>Performing Shielded Metal Arc Welding (SMAW) Operations</b>		

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
Discuss important safety considerations related to the welding environment prior to welding.	English: 10.1, 10.5, 11.1, 11.5	PST.01.03
Observe specific areas of danger, caution, and warning.		PST.01.03
Follow safe practices in SMAW operations, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5 History and Social Science: WHII 8; VUS 8 Science: CH.1	PST.01.03
Identify types of electrodes.	English: 10.5, 11.5	PST.01.03
Prepare equipment and materials for SMAW operations, following all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Demonstrate machine setup for SMAW operations, following all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Demonstrate SMAW operations, following all safety	English: 10.5, 11.5	PST.01.03

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
requirements, industry recommended practices, and instructor guidelines.		
Test welds for quality and strength of joint as outlined by AWS standards.	English: 10.5, 11.5	PST.01.03
<b>Performing Oxy-Fuel Welding and Cutting</b>		
Follow safe practices in oxy-fuel gas welding and cutting, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Set up gas welding and cutting equipment, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Demonstrate oxy-fuel welding, following all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Braze weld mild steel, following all safety requirements, industry recommended practices, and	English: 10.5, 11.5	PST.01.03

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
instructor guidelines.		
Cut mild steel with an oxy-fuel cutting torch, following all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
<b>Performing Gas Metal Arc Welding (GMAW) Operations</b>		
Follow safe practices in GMAW operations, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5 Science: CH.1	PST.01.03
Prepare equipment and materials for GMAW operations, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Demonstrate GMAW operations, following all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Describe procedures for welding aluminum, following all safety requirements,	English: 10.5, 11.5	PST.01.03

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
industry recommended practices, and instructor guidelines.		
Demonstrate the ability to weld aluminum, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
<b>Performing Gas Tungsten Arc Welding (GTAW) Operations</b>		
Follow safe practices in GTAW operations adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Describe GTAW operation procedures.	English: 10.5, 11.5	PST.01.03
Prepare equipment and materials for GTAW operations, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Demonstrate the ability to perform GTAW operations, adhering to all safety requirements, industry	English: 10.5, 11.5	PST.01.03

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
recommended practices, and instructor guidelines.		
<b>Performing Plasma Arc Cutting Operations</b>		
Describe safe operation of a plasma arc cutting system.	English: 10.5, 11.5	PST.01.03
Describe the components of a plasma arc cutting system.	English: 10.5, 11.5	PST.01.03
Demonstrate the ability to set up equipment for a plasma arc cutting task, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Demonstrate the ability to operate plasma arc cutting equipment, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
Demonstrate the ability to set up equipment for a computer numerical control (CNC) plasma arc cutting task.	English: 10.5, 11.5	PST.01.03
Demonstrate the ability to operate CNC plasma-arc cutting equipment, adhering to all safety requirements,	English: 10.5, 11.5	PST.01.03



<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
industry recommended practices, and instructor guidelines.		
<b>Performing Hot Metalworking Operations</b>		
Describe safe practices in hot metalworking operations.	English: 10.5, 11.5	PST.01.03
Identify metals.	English: 10.5, 11.5	PST.01.03
Describe the procedures for shaping, hardening, and tempering common tools.	English: 10.5, 11.5	PST.01.03
Select soldering equipment and tools.	English: 10.5, 11.5	PST.01.03
Prepare metals for soft soldering.	English: 10.5, 11.5	PST.01.03
Demonstrate soldering skills, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.03
<b>Performing Cold Metalworking Operations</b>		
Describe safe practices for metal striking and machine tools, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.02

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
Identify metalworking hand tools by type and use.	English: 10.5, 11.5	PST.01.02
Drill holes in metal, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.02
Determine tap drill sizes.	English: 10.5, 11.5	PST.01.02
Cut threads with tap and die, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.02
Use files and saws, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.02
<b>Demonstrating Tool Reconditioning</b>		
Identify safe practices for tool reconditioning.	English: 10.5, 11.5	PST.01.02
Sharpen common tools, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.02
Repair tools, adhering to all	English: 10.5, 11.5	PST.01.02

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
safety requirements, industry recommended practices, and instructor guidelines.		
<b>Understanding Precision Agricultural Management</b>		
Describe technologies used in precision agricultural management.	English: 10.5, 11.5 Science: PH.4	PST.05.03
Define site-specific application technology and its benefits.	English: 10.5, 11.5	PST.05.03
Define remote sensing and its applications.	English: 10.5, 11.5	PST.05.03
Describe the various types of positioning equipment.	English: 10.5, 11.5	PST.05.03
Describe the importance of developing and using maps in agricultural management.	English: 10.5, 11.5	PST.05.03
Describe the procedure for operating a GNSS receiver.	English: 10.5, 11.5	PST.05.03
Demonstrate the ability to collect data and apply that data in developing a map.	English: 10.5, 11.5 Mathematics: G.8, P.8*, PS.9*, AFDA.8	PST.05.03
Describe how GNSS data is used in agricultural management.	English: 10.5, 11.5	PST.05.03
Describe the purpose and uses of variable-rate technology.	English: 10.5, 11.5	PST.05.03

<b>Task</b>	<b>SOL Correlations</b>	<b>The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards</b>
Develop a precision-management plan.	English: 10.5, 11.5	PST.05.03
<b>Utilizing Laser Technologies in Agriculture</b>		
Research the applications for laser technology in agriculture.	English: 10.5, 11.5	PST.05.01
Demonstrate the ability to use laser technology in agriculture, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.05.01
<b>Exploring the Use of Drones for Agriculture</b>		
Explain uses of drones in agriculture.	English: 10.5, 11.5	PST.05.01
Research the types of drones used in agriculture.	English: 10.5, 11.5	PST.05.01
Identify safety precautions and standard operating procedures for flying drones.	English: 10.5, 11.5	PST.05.01
Describe the Federal Aviation Administration (FAA) Part 107 guidelines.	English: 10.5, 11.5 History and Social Science: GOVT. 7, 9	PST.05.01
Prepare a drone for flight.	English: 10.5, 11.5	PST.05.01
Fly a drone, adhering to all safety requirements, industry	English: 10.5, 11.5	PST.05.01

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
recommended practices, and instructor guidelines.		