

Standards Correlations

Agricultural Structural Systems (8017)

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content 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> <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	
Demonstrating Interpersonal Skills		

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

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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	

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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	
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.		

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

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

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
agriculture and FFA.		
Apply for an FFA degree and/or an agricultural proficiency award.	English: 10.5, 10.8, 11.5, 11.8	
Orienting Students to Agricultural Machinery and Equipment Safety and Operation		
Identify safety procedures and equipment necessary for agricultural structural systems.	English: 10.5, 10.8, 11.5, 11.8 History and Social Science: WHII 8; VUS 8 Science: CH.1	PST.01.02 PST.02.02
Apply laboratory safety instructions.	English: 10.5, 11.5 History and Social Science: WHII 8; VUS 8 Science: CH.1	PST.01.02 PST.02.02
Identify emergency first-aid procedures.	English: 10.5, 11.5 History and Social Science: WHII 8; VUS 8	PST.02.02
Identify the classifications of fires and the methods used to extinguish them.	English: 10.5, 11.5 Science: CH.1	PST.01.02 PST.02.02
Demonstrate lifting and carrying techniques.	English: 10.5, 11.5	PST.01.02
Report injuries.	English: 10.1, 10.5, 11.1, 11.5	PST.01.02 PST.02.02
Demonstrate safe use of tools, materials, and equipment for use in agricultural structural systems.	English: 10.5, 10.6, 10.7, 11.5, 11.6, 11.7 Science: CH.1	PST.01.02 PST.02.02

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
Exploring Types of Agricultural Structures		
Identify different types of agricultural structures.	English: 10.5, 11.5	PST.04.02
Identify components of agricultural structures.	English: 10.5, 11.5	PST.04.03
Determine the purposes of various types of agricultural structures and systems.	English: 10.5, 11.5	PST.04.03
Performing Plumbing Operations		
Demonstrate safety practices for performing plumbing operations, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5 Mathematics: G.8, G.9, G.13	PST.01.02 PST.02.02
Describe agricultural plumbing systems.	English: 10.5, 11.5	PST.04.03
Identify pipe fittings by type.	English: 10.5, 11.5	PST.04.03
Select pipe threading and cutting tools.		PST.04.03
Select types of pipe, tubing, and fittings.		PST.04.03
Calculate the length of pipe required to complete a job.		PST.04.03
Calculate the bill of materials		PST.04.02

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
for a plumbing project.		
Use various types of connection methods to join/connect plastic and/or copper pipe, adhering to all safety requirements, industry recommended practices, and instructor guidelines.		PST.04.03
Thread steel pipe, adhering to all safety requirements, industry recommended practices, and instructor guidelines.		PST.04.03
Connect flare and compression fittings.		PST.04.03
Sweat solder copper fittings, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.04.03
Performing Concrete and Masonry Operations		
Follow safety practices for performing concrete and masonry operations.	English: 10.5, 11.5	PST.01.02 PST.02.02
Identify the types and uses of concrete.	English: 10.5, 11.5	PST.04.03
Identify the components for	English: 10.5, 11.5	PST.04.03

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
creating concrete.		
Calculate the quantity and cost of concrete needed for a job.	Mathematics: G.8, G.13, G.14, AII.4, AII.10	PST.04.03
Explain the procedure for ordering ready-mixed concrete.	English: 10.5, 11.5	PST.04.03
Determine the water-cement ratio for a job.	English: 10.5, 11.5 Mathematics: AII.10	PST.04.03
Construct forms for concrete.	English: 10.5, 11.5	PST.04.03
Perform a slump test.	English: 10.5, 11.5	PST.04.03
Prepare concrete, using base materials, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	Mathematics: AII.10	PST.04.03
Pour concrete into forms, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	Mathematics: G.8, G.13, G.14, AII.4, AII.10	PST.04.03
Finish concrete slabs, adhering to all safety requirements, industry recommended practices, and instructor guidelines.		PST.04.03
Mix masonry mortar, adhering to all safety requirements, industry recommended	Mathematics: AII.10	PST.04.03

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
practices, and instructor guidelines.		
Lay concrete block and/or brick, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5 Mathematics: G.8, G.13, G.14, AII.5, AII.10	PST.04.03
Calculate the bill of materials for a masonry project.		PST.04.02
Demonstrating Land Measurement and Building-Site Evaluation		
Determine building-site conditions and limitations.	English: 10.5, 11.5 Mathematics: G.3, G.8, T.6	PST.04.02
Identify permitting procedures and requirements.	English: 10.5, 11.5	PST.04.02
Explain how to use different types of leveling instruments.	English: 10.5, 11.5	PST.04.03
Take rod readings.	English: 10.5, 11.5	PST.04.03
Determine the difference in elevation between two or more points using a level/grade rod.	English: 10.5, 11.5 Mathematics: G.8, T.6, T.7	PST.04.03
Measure distance with tape.	English: 10.5, 11.5	PST.01.02
Determine percent of slope.	Mathematics: G.3, G.8	PST.04.03
Select terracing and water diversion options for soil conservation.		PST.04.03

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
Interpret various maps.	Science: ES.1	PST.04.03
Determine land area.	Mathematics: G.9	PST.04.03 PST.05.01
Determine elevation differences, using a hand level.	Mathematics: G.3, G.8, T.6,	PST.04.03
Describe how to use survey and site drawings.	English: 10.5, 11.5	PST.04.03
Lay out foundations, footings, and batter boards.	English: 10.5, 11.5 Mathematics: G.2, G.8, G.9	PST.04.03
Performing Carpentry Skills		
Follow safety practices for carpentry.	English: 10.5, 11.5	PST.01.02 PST.02.02
Interpret plans and drawings.	English: 10.5, 11.5	PST.04.01
Calculate a bill of materials for a carpentry project.		PST.04.02
Select wood framing and roofing materials.	English: 10.5, 11.5	PST.01.02 PST.04.02 PST.04.03
Select insulating materials.	English: 10.5, 11.5 Mathematics: G.9, G.13, AII.3, AII.10	PST.04.03
Use carpentry tools and measuring instruments, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5 Mathematics: G.8, G.9, G.13	PST.01.02

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
Use construction fasteners (e.g., glue, nails, bolts, screws, anchors, studs, washers, nuts, staples, brads, pins, t-nails), adhering to all safety requirements, industry recommended practices, and instructor guidelines.		PST.01.02
Lay out the framing of a building, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.04.03
Lay out rafters and braces, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5 Mathematics: G.3, G.8, T.6, T.8	PST.04.03
Demonstrating Skills in Electricity		
Explain safe working practices around electrical hazards.	English: 10.5, 11.5 Science: PH.11	PST.01.02 PST.02.02
Describe electrical energy and how it works.	English: 10.5, 11.5 Mathematics: AII.3, AII.10 Science: PH.11	PST.01.01 PST.03.02
Define common electrical terms and their relationships.	English: 10.3, 10.5, 11.3, 11.5 Mathematics: AII.3, AII.10 Science: PH.11	PST.01.01 PST.03.02

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
Determine the use and cost of electrical energy.	English: 10.5, 11.5	PST.01.01 PST.04.04
Interpret wiring plans.	English: 10.5, 11.5	PST.03.02 PST.04.04
Determine electrical power requirements.	English: 10.5, 11.5 Mathematics: AII.3, AII.10 Science: PH.11	PST.01.01 PST.04.04
Mark routes for small appliances, general purpose, and individual circuits.	English: 10.5, 11.5	PST.03.02 PST.04.04
Estimate wiring costs.		PST.04.02 PST.04.04
Install device boxes and outlet boxes, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.02 PST.02.02 PST.04.04
Install branch circuits, adhering to all safety requirements, industry recommended practices, and instructor guidelines.		PST.01.01 PST.02.02 PST.03.02 PST.04.04
Explain the purpose of grounding electrical systems and equipment.	English: 10.5, 11.5	PST.01.02 PST.02.02 PST.04.04
Ground electrical systems and equipment, adhering to all		PST.01.02 PST.02.02

Task	SOL Correlations	The National Council for Agricultural Education: Agriculture, Food and Natural Resources Content Standards
safety requirements, industry recommended practices, and instructor guidelines.		PST.04.04
Describe the type of service entrance equipment to install.	English: 10.5, 11.5	PST.03.02 PST.04.04
Install service entrance equipment, using cable or conduit with overhead or underground connectors, adhering to all safety requirements, industry recommended practices, and instructor guidelines.		PST.01.02 PST.02.02 PST.03.02 PST.04.04 PST.05.02
Describe GFCIs.	English: 10.5, 11.5	PST.01.02 PST.04.04
Troubleshoot electrical circuits, adhering to all safety requirements, industry recommended practices, and instructor guidelines.	English: 10.5, 11.5	PST.01.02 PST.02.02 PST.04.04
Install conduit, adhering to all safety requirements, industry recommended practices, and instructor guidelines.		PST.01.02 PST.02.02 PST.04.01
Interpret the NEC requirements for wiring.	English: 10.5, 11.5	PST.04.02 PST.04.04
Measure electrical circuits for	Science: PH.11	PST.01.02

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voltage, current flow, resistance, and wattage, adhering to all safety requirements, industry recommended practices, and instructor guidelines.		PST.02.02 PST.04.04
Determine the size of an external, independently powered generator needed to operate a home.	English: 10.5, 11.5	PST.04.04
Describe the materials necessary to install a home generator in accordance with NEC requirements.	English: 10.5, 11.5	PST.04.04