Standards Correlations Agricultural Power Systems, Advanced (8020)

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* 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

Task	SOL Correlations
	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 Interpers	onal 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
Demonstrating Profession	nal 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	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

Task	SOL Correlations
skills.	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
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

Task	SOL Correlations
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 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 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	

Task	SOL Correlations
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
Addressing Elements of S	Student Life

Task	SOL Correlations
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 L	earning
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.	

Task	SOL Correlations
Exploring Leadership Op	oportunities 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
	he Agricultural Mechanics Lab
Demonstrate safe practices in the agricultural mechanics lab.	English: 10.5, 11.5, 12.5 History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9 Science: BIO.1, CH.1
Identify marked safety areas and posted evacuation routes.	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
Explain the use of eye wash stations.	English: 10.5, 11.5, 12.5 History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9 Science: CH.1

Task	SOL Correlations
Demonstrate knowledge of SDS.	English: 10.5, 11.5, 12.5
	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
	Science: CH.1
Use protective clothing and equipment.	English: 10.5, 11.5, 12.5
	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
	Science: CH.1
Demonstrate the use, storage, and disposal of chemicals.	English: 10.5, 11.5, 12.5
	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
	Science: CH.1
Explain the use of fire protection equipment.	English: 10.5, 11.5, 12.5
	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
	Science: CH.1
Demonstrate the safe use of standard and metric hand	English: 10.5, 11.5, 12.5
tools.	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
Demonstrate the safe use of	English: 10.5, 11.5, 12.5
power tools and equipment.	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
Use standard and metric	English: 10.5, 11.5, 12.5
precision measuring tools.	

Task	SOL Correlations
Performing General Mechani	cal Maintenance
Identify lab and maintenance safety procedures and protocols.	English: 10.5, 11.5, 12.5 History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
	Science: CH.1
Identify hazards associated with using and servicing farm machinery and equipment.	English: 10.3, 10.5, 11.3, 11.5, 12.3, 12.5
Demonstrate safe use of maintenance tools and	English: 10.5, 11.5, 12.5
equipment.	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
Maintain equipment.	English: 10.5, 11.5, 12.5
Maintaining and Servicing H	ydraulic and Pneumatic Systems
Explain safety considerations	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8
regarding chemical exposure (e.g., to fuels, solvents, insecticides, herbicides,	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
fungicides, fertilizers and veterinary chemicals) when working with farm equipment	
and machinery.	
Explain safety considerations	English: 10.5, 11.5, 12.5
when working with hydraulic and pneumatic systems.	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9

Task	SOL Correlations
Explain the fundamental operating principles of hydraulic and pneumatic systems.	English: 10.5, 11.5, 12.5
Explain the operation of open and closed center hydraulic systems.	English: 10.5, 11.5, 12.5
Calculate hydraulic pressure and force, using Pascal's law.	Mathematics: AII.3
Explain the importance of hydraulic system service and maintenance.	English: 10.5, 11.5, 12.5
Use a flow meter and test gauge to measure the performance of a hydraulic system.	English: 10.5, 11.5, 12.5
Repair a hydraulic component.	English: 10.5, 11.5, 12.5
Repair a hydraulic-assist transmission.	English: 10.5, 11.5, 12.5
Repair hydrostatic drives.	English: 10.5, 11.5, 12.5
Maintaining and Servicing El	lectrical Systems
Explain safety considerations when working with electrical	English: 10.5, 11.5, 12.5
systems and in proximity to electricity.	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9

Task	SOL Correlations
	Science: PH.11
Interpret electrical schematics.	Science: PH.11
Use electrical diagrams to locate components on equipment.	Science: PH.11
Test electrical components and devices.	English: 10.5, 11.5, 12.5
Maintaining and Servicing th	e Ignition Circuit
Explain the operation of the ignition circuit.	
Troubleshoot the ignition switch.	English: 10.5, 11.5, 12.5
Maintaining and Servicing th	e Starting Circuit
Explain the operation of the starting circuit.	
Troubleshoot the safety switch.	English: 10.5, 11.5, 12.5
Troubleshoot the starter solenoid.	English: 10.5, 11.5, 12.5
Troubleshoot glow plugs on diesel engines.	English: 10.5, 11.5, 12.5
Troubleshoot the starter.	
Replace defective parts of the starting circuit.	English: 10.5, 11.5, 12.5

Task	SOL Correlations
Maintaining and Servicing th	e Charging Circuit
Explain the operation of the charging circuit.	
Test the charging circuit.	English: 10.5, 11.5, 12.5
Replace an amperage gauge.	English: 10.5, 11.5, 12.5
Check the armature and fields of charging circuits.	
Maintaining and Servicing Fu	iel Systems
Explain the operation of the components of a fuel system.	
Explain the importance of proper fuel storage.	English: 10.5, 11.5, 12.5
Explain the operating principles and maintenance of carburetors.	
Repair various fuel systems.	English: 10.5, 11.5, 12.5
Explain the operating principles and maintenance of a high-pressure fuel injector.	English: 10.5, 11.5, 12.5
Service diesel fuel systems.	English: 10.5, 11.5, 12.5

Task	SOL Correlations
Service fuel tanks and lines.	English: 10.5, 11.5, 12.5
Maintaining and Servicing th	e Air Intake System
Explain the importance of servicing and maintaining air intake systems.	English: 10.5, 11.5, 12.5
Explain how air filtration systems operate.	
Service air cleaners (dry and oil bath).	English: 10.5, 11.5, 12.5
Inspect intake and induction systems.	English: 10.5, 11.5, 12.5
Maintaining and Servicing th	e Cooling System
Follow general safety precautions when maintaining cooling systems.	English: 10.5, 11.5, 12.5
Explain the operation of the cooling system.	
Check coolant levels.	English: 10.5, 11.5, 12.5
Test radiator coolant.	English: 10.5, 11.5, 12.5
Flush radiator.	English: 10.5, 11.5, 12.5

Task	SOL Correlations
Inspect cooling system components for wear.	English: 10.5, 11.5, 12.5
Maintaining and Servicing th	e Lubrication System
Follow safety procedures for servicing lubrication systems.	English: 10.5, 11.5, 12.5
	History and Social Sciences: WHII.8; VUS.8; Govt 7, 8, 9
Explain the operation of lubrication systems.	
Check the engine crankcase oil level.	English: 10.5, 11.5, 12.5
Select appropriate lubricants based on quality and viscosity designations.	English: 10.5, 11.5, 12.5
Change lubricants and filters.	English: 10.5, 11.5, 12.5
Dispose of engine oils.	English: 10.5, 11.5, 12.5
Testing, Servicing, and Repai	ring the Power Unit
Test the power unit.	English: 10.5, 11.5, 12.5
Service the power unit.	English: 10.5, 11.5, 12.5
Repair the power unit.	English: 10.5, 11.5, 12.5

Task	SOL Correlations	
Test engine compression.	English: 10.5, 11.5, 12.5	
Maintaining and Servicing the		
Explain the theory of powertrain systems.	English: 10.3, 10.5, 11.3, 11.5, 12.3, 12.5	
Explain the operational theory of brakes (wet and dry),	English: 10.6, 10.7, 11.6, 11.7, 12.6, 12.7	
torsion dampers, and torque converters.		
Explain the operational theory of a final drive system.	English: 10.6, 10.7, 11.6, 11.7, 12.6, 12.7	
Troubleshoot various powertrain systems.	English: 10.5, 11.5, 12.5	
Troubleshoot brakes (wet and dry), torsion dampers, and torque converters.	English: 10.5, 11.5, 12.5	
Troubleshoot final drives and differential systems.	English: 10.5, 11.5, 12.5	
Service power take-off drives.	English: 10.5, 11.5, 12.5	
Maintaining and Servicing Differentials, Transmissions, and Axles		
Follow safety procedures related to differentials, transmissions, and axles.	English: 10.5, 11.5, 12.5	
Explain the operation of differentials, transmissions, and axles.		

Task	SOL Correlations
Check the transmission or differential lubricant levels on equipment.	English: 10.5, 11.5, 12.5
Check tire pressure, wear, and defects.	English: 10.5, 11.5, 12.5
Change the differential fluid(s).	English: 10.5, 11.5, 12.5
Pack wheel bearings.	English: 10.5, 11.5, 12.5
Maintaining and Servicing St	orage Battery
Follow general safety when servicing batteries.	English: 10.5, 11.5, 12.5
Use jumper cables to jump- start or charge a battery.	English: 10.5, 11.5, 12.5
Service battery.	
Performing Welding/Cutting	Operations
Perform grinding operations with a pedestal/bench grinder and/or portable/hand-held disc/angle grinder.	English: 10.5, 11.5, 12.5
Perform welding operations.	English: 10.5, 11.5, 12.5
Cut metals.	English: 10.5, 11.5, 12.5
Applying Protective Coatings	
Prepare equipment for painting.	English: 10.5, 11.5, 12.5
Clean equipment with a steam cleaner and/or high-pressure washer.	English: 10.5, 11.5, 12.5
Apply protective coatings.	English: 10.5, 11.5, 12.5
Performing Administrative an	nd Customer Sales Duties

Task	SOL Correlations
Maintain current inventory,	English: 10.6, 11.6, 12.6
using an electronic inventory	
system.	Mathematics: COM.1, COM.2, COM.5, COM.7, COM.10, COM.11
Place orders using available	English: 10.6, 11.6, 12.6
resources.	
Complete work orders,	English: 10.5, 10.6, 10.7, 11.5, 11.6, 11.7, 12.5, 12.6, 12.7
invoices, and requisitions for repairs.	
Maintain clean and orderly customer and parts areas.	English: 10.5, 11.5, 12.5
Explain repairs and expenses to customers using written estimates.	English: 10.1, 10.5, 11.1, 11.5, 12.1, 12.5
Complete an invoice.	English: 10.6, 11.6, 12.6
	arvesting Machinery and Equipment
Explain the operating	
fundamentals of harvesting	
equipment.	
Perform diagnostic,	English: 10.5, 11.5, 12.5
maintenance, and repair	
procedures on harvesting	
equipment.	
Set up harvesting equipment	English: 10.5, 11.5, 12.5
prior to and during in-field	
use to optimize performance	
according to conditions.	
	illage and Seeding Application Machinery and Equipment
Explaining the fundamentals	English: 10.1, 11.1, 12.1
of machine operation,	
including tractor/implement	
compatibility.	

Task	SOL Correlations
Identify laws associated with	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8
tillage and seeding	
applications.	
Set up tillage and seeding	English: 10.5, 11.5, 12.5
application equipment.	
Perform diagnostic,	English: 10.5, 11.5, 12.5
maintenance, and repair	
procedures on tillage	
equipment.	
Perform diagnostic,	English: 10.5, 11.5, 12.5
maintenance, and repair	
procedures on seeding	
equipment.	