

# Standards Correlations

## Small Engine Repair (8082, 8021)

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, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10*</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1</p>

<b>Task</b>	<b>SOL Correlations</b>
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
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
<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 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

<b>Task</b>	<b>SOL Correlations</b>
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.	
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>	

<b>Task</b>	<b>SOL Correlations</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>	
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

<b>Task</b>	<b>SOL Correlations</b>
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, WHIL.8, WHIL.10, WHIL.11
Apply for an FFA degree and/or an agricultural proficiency award.	English: 9.5, 10.5
<b>Applying Safety Practices in the Small Engine Lab</b>	
Demonstrate safety practices in the small engine lab.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.16 Science: CH.1
Explain methods for mitigating risks and accidents related to small engine work.	English: 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: WG.1, WHI.1, WHIL.1, VUS.1, GOVT.1, GOVT.16
Follow federal, state, and local code, regulations, and recommended guidelines.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.7, GOVT.8, GOVT.9, GOVT.16 Science: CH.1
Demonstrate the use of personal protective equipment (PPE).	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.16 Science: CH.1
Use safety shields and guards on all equipment.	English: 9.5, 10.5, 11.5, 12.5

Task	SOL Correlations
	History and Social Science: GOVT.16
Demonstrate safety practices for flammable materials and hazardous waste.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.16 Science: CH.1
Identify safety procedures when operating small engine equipment.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.16
Identify marked safety zones and nonskid areas.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.16
Identify the location and use of eyewash stations.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.16 Science: CH.1
Identify the location of posted evacuation routes.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.16
Demonstrate knowledge of safety data sheets (SDS).	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: WG.1, WHI.1, WHII.1, VUS.1, GOVT.1, GOVT.16 Science: CH.1

<b>Task</b>	<b>SOL Correlations</b>
Demonstrate precautions in the use, storage, and disposal of chemicals and hazardous wastes.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.16 Science: CH.1
Describe the use of standard and metric hand tools.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: WG.1, WHI.1, WHII.1, VUS.1, GOVT.1, GOVT.16
Describe the use of power tools.	English: 9.5, 10.5, 11.5, 12.5
Describe the use of standard and metric precision measuring and other specialty tools.	English: 9.5, 10.5, 11.5, 12.5
Explain the types and use of fire protection equipment.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: GOVT.16 Science: CH.1
<b>Describe the Operation of an Internal Combustion Engine</b>	
Identify the five engine events.	English: 9.5, 10.5, 11.5, 12.5
Explain the operation of a four-stroke engine.	English: 9.5, 10.5, 11.5, 12.5
Explain the operation of a two-stroke engine.	English: 9.5, 10.5, 11.5, 12.5
Explain the interrelationship of parts during each stroke for an internal combustion engine.	English: 9.5, 10.5, 11.5, 12.5
<b>Demonstrating the Use of Tools</b>	
Demonstrate the use of basic hand tools and commonly used power tools in small engine repair.	English: 9.5, 10.5, 11.5, 12.5

<b>Task</b>	<b>SOL Correlations</b>
Identify fasteners, adhesives, sealants, and gaskets used on small engines.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate torque technique for threaded fasteners.	English: 9.5, 10.5, 11.5, 12.5
Demonstrate use of measuring and testing devices.	English: 9.5, 10.5, 11.5, 12.5
Repair threaded holes.	English: 9.5, 10.5, 11.5, 12.5
<b>Understanding Engine Nomenclature and Selecting Repair Parts</b>	
Explain nomenclature used in the small engine industry.	English: 9.5, 10.5, 11.5, 12.5
Identify the manufacturer, model number, serial number, specification number, and other unique equipment numbers.	English: 9.5, 10.5, 11.5, 12.5
Use service, repair, and operating manuals for equipment.	English: 9.5, 10.5, 11.5, 12.5
Locate replacement part numbers.	English: 9.5, 10.5, 11.5, 12.5
<b>Exploring the Fundamentals of Electricity, Magnetism, and Electronics</b>	
Explain Ohm's law and how electricity is produced and used in small engines.	English: 9.5, 10.5, 11.5, 12.5 Mathematics: A.1, A.4, AII.3, AII.10 Science: PH.8

<b>Task</b>	<b>SOL Correlations</b>
Explain magnetism and its role in the way electricity is produced and utilized in small engine applications.	English: 9.5, 10.5, 11.5, 12.5 Science: PH.7
Identify electrical test equipment used in small engine diagnostics.	English: 9.5, 10.5, 11.5, 12.5
<b>Repairing Manual Starters</b>	
Identify the components of a manual starter.	English: 9.5, 10.5, 11.5, 12.5
Repair a manual starter.	English: 9.5, 10.5, 11.5, 12.5
<b>Identifying Electric Starters</b>	
Identify the components of an electric starter.	English: 9.5, 10.5, 11.5, 12.5
Repair an electric starter.	English: 9.5, 10.5, 11.5, 12.5
<b>Servicing Spark Plugs</b>	
Identify the components of a spark plug.	English: 9.5, 10.5, 11.5, 12.5
Evaluate the spark plug.	English: 9.5, 10.5, 11.5, 12.5
Set the spark plug electrode gap.	English: 9.5, 10.5, 11.5, 12.5
<b>Repairing Ignition Systems</b>	
Identify ignition systems components and their functions.	English: 9.5, 10.5, 11.5, 12.5
Identify types of ignition systems used in small engines.	English: 9.5, 10.5, 11.5, 12.5
Identify parts used in repairing the ignition circuit.	English: 9.5, 10.5, 11.5, 12.5
Service ignition parts.	English: 9.5, 10.5, 11.5, 12.5
<b>Evaluating Battery Systems</b>	

<b>Task</b>	<b>SOL Correlations</b>
Describe the safety hazards associated with battery systems.	English: 9.5, 10.5, 11.5, 12.5
Evaluate system operation.	
Install a battery.	
Test a battery.	English: 9.5, 10.5, 11.5, 12.5
<b>Examining Functions and Types of Fuel Systems</b>	
Explain the principles of a fuel delivery system.	English: 9.5, 10.5, 11.5, 12.5
Identify the types of fuel delivery systems, system components, and fuel types.	English: 9.5, 10.5, 11.5, 12.5
Service the fuel system.	English: 9.5, 10.5, 11.5, 12.5
<b>Repairing Carburetors and/or Fuel Injection Systems</b>	
Identify types of carburetors and fuel injection systems.	
Explain the operation of a carburetor and a fuel injection system.	English: 9.5, 10.5, 11.5, 12.5
Evaluate the operation of a carburetor.	English: 9.5, 10.5, 11.5, 12.5
Service a carburetor and/or fuel injection system.	English: 9.5, 10.5, 11.5, 12.5
Determine the replacement vs. repair of a carburetor and/or a fuel injection system.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: WG.1, WHI.1, WHII.1, VUS.1, GOVT.1, GOVT.16
Replace a carburetor.	English: 9.5, 10.5, 11.5, 12.5
<b>Repairing Governors</b>	

<b>Task</b>	<b>SOL Correlations</b>
Identify types of governors.	English: 9.5, 10.5, 11.5, 12.5
Explain the operation of a governor.	English: 9.5, 10.5, 11.5, 12.5
Evaluate operation of a governor.	English: 9.5, 10.5, 11.5, 12.5
Adjust the governor.	English: 9.5, 10.5, 11.5, 12.5
<b>Servicing Valves on Four-Stroke Engines</b>	
Describe the operation of intake and exhaust valves.	English: 9.5, 10.5, 11.5, 12.5
Describe the differences between the OVH and L-head valve design.	English: 9.5, 10.5, 11.5, 12.5 History and Social Science: WG.1, WHI.1, WHIL.1, VUS.1, GOVT.1, GOVT.16
Evaluate valve clearance.	English: 9.5, 10.5, 11.5, 12.5
Evaluate valves and accessories for defects.	
Demonstrate valve adjustment and installation.	English: 9.5, 10.5, 11.5, 12.5
Replace the cylinder head.	English: 9.5, 10.5, 11.5, 12.5
<b>Repairing Valves on Two-Stroke Engines</b>	
Identify types of valves.	
Explain how valves work.	English: 9.5, 10.5, 11.5, 12.5
Evaluate the reed valve for proper operation.	English: 9.5, 10.5, 11.5, 12.5
Replace the reed valve assembly.	English: 9.5, 10.5, 11.5, 12.5
<b>Examining Internal Engine Parts</b>	
Identify internal engine parts.	
Explain how pistons and the compression system work.	English: 9.5, 10.5, 11.5, 12.5

<b>Task</b>	<b>SOL Correlations</b>
Explain how various piston rings work.	English: 9.5, 10.5, 11.5, 12.5
Remove internal engine parts.	English: 9.5, 10.5, 11.5, 12.5
Inspect the cylinders for wear.	
Analyze the camshaft assembly for defects.	
Evaluate a crankshaft.	English: 9.5, 10.5, 11.5, 12.5
<b>Understanding Principles of Engine Cooling and Servicing Air Filters</b>	
Explain the principles of engine cooling.	English: 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5
Describe the types of cooling systems.	
Identify types of air filters.	
Service air filters.	English: 9.5, 10.5, 11.5, 12.5
<b>Servicing the Lubrication System</b>	
Explain the principles of lubrication in a small engine.	English: 9.3, 9.5, 20.3, 10.5, 11.3, 11.5, 12.3, 12.5
Select engine oil.	English: 9.3, 9.5, 10.3, 10.5, 11.3, 11.5, 12.3, 12.5
Change the engine oil.	English: 9.5, 10.5, 11.5, 12.5
Change the oil filter.	English: 9.5, 10.5, 11.5, 12.5
Inspect the breather.	English: 9.5, 10.5, 11.5, 12.5