

**AGRICULTURAL MECHANICS CURRICULUM MAP – 4/05**

<b>Month</b>	<b>Content</b> What topic(s) is being covered and what is the important vocabulary? What do students need to know		<b>Skills</b> What do students have to be able to do connected to the Content?	<b>Essential Questions</b> What are fundamental, enduring questions that will guide study and instruction?	<b>Standards/ Benchmarks</b> What benchmarks are met through this topic?	<b>Instruction</b> What activities are used to develop the skills and knowledge?	<b>Resources</b> What materials, texts, videos, internet, software, or human resources support instruction?	<b>Assessment</b> What evidence (products and/or performances) is collected to establish that the Content and Skills have been learned?
<b>August</b>	<p><b>Topic:</b></p> <p>Introduction to Agricultural</p> <p>Expectations &amp; requirements</p>	<p><b>Vocabulary:</b></p>	<ul style="list-style-type: none"> <li>Demonstration of a working understanding of the basic principles of an internal combustion engine.</li> <li>Identify various career opportunities.</li> </ul>	<ul style="list-style-type: none"> <li>How is chemical energy converted to mechanical energy.</li> </ul>	N/A	<p>Class discussion supplemented with overheads, text, and demonstrations.</p> <p>Career search / exploration</p>	<p>Small Gas Engines – Alfred Roth</p> <p>Demonstration by instructor</p> <p>Chapter 22 of text and interviews</p>	<p>Daily class discussion.</p> <p>Diagrams &amp; study sheets, unit quizzes and tests</p> <p>Career description paper.</p>

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September	<p><b>Topic:</b></p> <p>Study of individual systems within an internal combustion engine.</p> <p>Fuel system</p> <p>Electrical system</p> <p>Power system</p> <p>Lubrication system</p> <p>Cooling system</p>	<p><b>Vocabulary:</b></p>	<ul style="list-style-type: none"> <li>• Be able to recognize the various systems within an engine, and understand their contribution to the operation of the engine.</li> <li>• Identify 2 cy vs 4 cy engines and their differences and similarities.</li> <li>• Understand the basic principle and function of a carburetor.</li> <li>• Ability to disassemble, clean, and reassemble a carburetor.</li> <li>• Correct carburetor adjustment.</li> <li>• Identification of parts and types of carburetors.</li> <li>•</li> </ul>					

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