

## Expectations and Outcomes

Grade Level/Course:9-12

Content Area: Tech Ed

Unit Title	Guarantees
Unit 1: Safety	<ul style="list-style-type: none"> <li>Students will understand and be able to apply safe operating procedures in a woodworking shop area.</li> </ul>
Unit 2: Measuring & Converting	<ul style="list-style-type: none"> <li>Students will be able to convert between feet &amp; inches and add and subtract fractions.</li> <li>Students will be able to fluently using a metric and standard ruler.</li> </ul>
Unit 3: Basic Woodworking Project	<ul style="list-style-type: none"> <li>Students will build a basic woods project to reinforce woodworking skills.</li> <li>Students will use a material cost calculation sheet to determine cost of projects.</li> </ul>
Unit 4: Design Process	<ul style="list-style-type: none"> <li>Students will be able to communicate a 3D object drawn in a orthographic representation.</li> </ul>
Unit 5: Single String Electric Guitar Body Build	<ul style="list-style-type: none"> <li>Students will design a front view of an electric guitar.</li> <li>Students will build an electric guitar body and neck from wood or other materials.</li> </ul>
Unit 6: Electricity, Sound Waves & Speakers	<ul style="list-style-type: none"> <li>Students will be able to use the relationship between electricity and magnetism.</li> </ul>
Unit 7: CAD Software Introduction	<ul style="list-style-type: none"> <li>Students will be introduced to CAD Software</li> </ul>
Unit 8: Stereo lithography	<ul style="list-style-type: none"> <li>Students will have the ability to use a 3D printer to print a design from CAD.</li> </ul>
Unit 9: Inventions/Shark Tank	<ul style="list-style-type: none"> <li>Students will design and market a new invention presenting the product to a group of fake investors.</li> </ul>
Unit 10: Career Exploration	<ul style="list-style-type: none"> <li>Identify and demonstrate positive work behaviors and personal qualities needed to be employable.</li> <li>Evaluate how performance and connections within the learning community enhance future opportunities.</li> </ul>

