

**Elizabethtown Area School District  
Scope & Sequence - Quick Reference**



**Department: Applied Engineering & Technology Education, 18 Weeks**

**Course: Electric Guitar Design and Manufacturing**

**Grade Level(s): 9-12**

<i>Unit Title</i>	<i>General Topic(s)</i>	<i>Pacing</i>
1. Safety	<ul style="list-style-type: none"> <li>● Machine Tools</li> <li>● Hand Tools</li> <li>● General Lab Safety</li> <li>● Safety Testing</li> </ul>	3 Weeks
1. Box Guitars	<ul style="list-style-type: none"> <li>● Musical Technologies</li> <li>● Wood Material Characteristics</li> <li>● Guitar Tabs vs Guitar Chords</li> <li>● Box Guitar Anatomy</li> <li>● Box Guitar Design</li> <li>● Illustrator</li> <li>● Part Manufacturing</li> <li>● Electronics &amp; Assembly</li> <li>● Wood Finishing</li> <li>● Setup &amp; Tuning</li> <li>● Box Guitar Playing</li> </ul>	4 Weeks
2. Guitar Body & Neck Prep	<ul style="list-style-type: none"> <li>● Electric Guitar Parts</li> <li>● Abrasives</li> <li>● Headstock Design</li> <li>● Grain Filler</li> <li>● Finish Application</li> </ul>	3 Weeks
3. Guitar Assembly	<ul style="list-style-type: none"> <li>● Soldering</li> <li>● Drilling</li> <li>● Mechanical Fasteners</li> </ul>	2 Weeks

4. Guitar Setup	<ul style="list-style-type: none"> <li>● Fretwork</li> <li>● Action</li> <li>● Intonation</li> <li>● Tuning</li> </ul>	2 Weeks
5. Guitar CADD	<ul style="list-style-type: none"> <li>● Body CADD</li> <li>● Illustrator Logo Design</li> <li>● Logo manufacturing</li> </ul>	2 Weeks
6. Making Music	<ul style="list-style-type: none"> <li>● Guitar Tabs</li> <li>● Guitar Chords</li> <li>● Strumming Patterns</li> <li>● Student Music Technology Project</li> </ul>	2 Weeks