

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



Department: Applied Engineering & Technology Education

Course: Introduction to Technology & Engineering

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"> ● General Lab Safety ● Personal Protective Equipment (PPE) ● Machine Specific Safety ● Lab Maintenance 	2 Weeks
2. Problem-Solving (Parachute Egg Drop)	<ul style="list-style-type: none"> ● Guess and Check vs Engineering Design ● Communication of Design Intent ● Development of Manipulative Skills ● Product Testing ● Data Analysis ● Student Problem-solving Project 	3 Weeks
3. Materials & Processes (Acrylic Dice)	<ul style="list-style-type: none"> ● ANSI Measurement ● Polymers as an Engineered Material ● Polymer Characteristics ● Polymer Processing ● Polymer Finishing ● Polymer Technology Student Project 	3 Weeks
4. Construction & Manufacturing	<ul style="list-style-type: none"> ● Wood as a Resource 	5 Weeks

(Woodworking)	<ul style="list-style-type: none"> ● Wood as a Manufacturing Material ● Wood Processing ● Wood Finishing ● Student Wood Technology Project 	
5. Engineering Design (CO2 Dragster)	<ul style="list-style-type: none"> ● ISO Measurement ● Communication of Design within Scale Parameters ● Design Specification vs. Limitations ● Mockup vs Prototype ● Product Testing ● Transportation Technology Student Project 	5 Weeks