

Elizabethtown Area School District
Scope & Sequence - Quick Reference



Department: Applied Engineering & Technology Education, 18 Weeks

Course: Computer-Aided Drafting and Design

Grade Level(s): 9-12

<i>Unit Title</i>	<i>General Topic(s)</i>	<i>Pacing</i>
1. Visual Communication	<ul style="list-style-type: none">● Sketching● 3D Communication Techniques● Orthographic Projection● Product Design	3.5 Weeks
2. Sketching and Features	<ul style="list-style-type: none">● Sketching and Geometric Construction● Geometric Construction● Advanced Sketching● Basic Extrusion● Advanced Extrusion and Materials● 3D Design Challenge 1● Geometric Constraints, Variables, and Measurement● 3D Design Challenge 2	3.5 Weeks
3. Assemblies and Engineering Drawings	<ul style="list-style-type: none">● Inserting and Standard Content● Assemblies & Mates● Reading Engineering Drawings● Engineering Drawing Basics● Advanced Engineering Drawings● Assembly Design Challenge	4 Weeks

4. CADD Application	<ul style="list-style-type: none">● File Sharing and Collaboration● Keyboard Shortcuts● Engineering Drawing Review● Modeling Practice● Assembly Practice● Fluid Power Design Project	4 Weeks
5. Architecture	<ul style="list-style-type: none">● Architectural Plans● Architectural Styles● Architectural Considerations● Architectural Design	3 Weeks