

CAD

Content Area: **21st Century Life & Careers**
Course(s): **Level 1 Engineering Drawing**
Time Period: **Marking Period 2**
Length: **4**
Status: **Published**

Unit Introduction

Standards

TEC.9-12.	Technology products and systems impact every aspect of the world in which we live.
STEM.9-12.9.4.12.O.(1).1	Apply the concepts, processes, guiding principles, and standards of school mathematics to solve science, technology, engineering, and mathematics problems.
STEM.9-12.9.4.12.O.(1).3	Demonstrate the ability to select, apply, and convert systems of measurement to solve problems.
STEM.9-12.9.4.12.O.2	Demonstrate mathematics knowledge and skills required to pursue the full range of postsecondary education and career opportunities.
STEM.9-12.9.4.12.O.17	Employ critical thinking skills (e.g., analyze, synthesize, and evaluate) independently and in teams to solve problems and make decisions.
STEM.9-12.9.4.12.O.30	Employ computer operations applications to manage tasks.
STEM.9-12.9.4.12.O.58	Maintain a career portfolio to document knowledge, skills, and experience in a career field.

Essential Questions

1. What is CAD?
2. In what ways can CAD be better than board drawing?
3. How can using CAD improve your work?
4. Is using CAD a computer skill or a drafting tool?

Content/Skills

Textbooks:

Basic Technical Drawing - Spencer, Dygdon, Novak, 8th edition, 2004

Engineering Drawing & Design - D.A. Madsen, D.P. Madsen, 6th edition, 2017

Skills:

Students will produce various basic drawings using computer aided drawing system.