

# CAD

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

## Unit Introduction

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## Standards

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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

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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

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*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.