

# Measurement and Sketching

Content Area: **21st Century Life & Careers**  
Course(s):  
Time Period: **Marking Period 1**  
Length: **3 weeks**  
Status: **Published**

## Unit Introduction

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## Standards

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ARCH.9-12.9.4.12.B.7	Demonstrate use of the concepts, strategies, and systems for obtaining and conveying ideas and information to enhance communication.
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.

## Essential Questions

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1. How do we communicate or explain a product idea?
2. Why are accuracy and proper details on a working drawing important?

## Content/Skills

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*Students will be able to read/apply basic measurement practices.*

*Students will be able to accurately produce a variety of freehand sketches of various objects.*

*Textbooks:*

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

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

*Skills:*

## **Skills (delete)**

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- Conveying ideas w/sketches
- Measurement/Layout
- Orthographic visualization
- Producing object sketches
- Self assessment
- Sketching arcs & circles
- Sketching straight lines