

3 Measurement, Sketching and Scale

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

Unit Introduction

In this unit, students will learn, develop and/or demonstrate the ability to communicate ideas with sketching.

and, students will learn, develop and/or demonstrate the ability to read and set measurements with a ruler/tape measure to various scales.

Standards

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.
CAEP.9.2.12.C	Career Preparation
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

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

Content/Skills

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.

Skills (delete)

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