Isometrics Unit

Content Area: **21st Century Life & Careers**
Course(s): **Generic Course, Level 1 Engineering Drawing**
Time Period: **Marking Period 3**
Length: **3-4 Weeks**
Status: **Published**

Unit Introduction

Standards

12.9.3.ST.6	Demonstrate technical skills needed in a chosen STEM field.
ARCH.9-12.9.4.12.B.(1).9	Develop technical drawings drafted by hand and computer-generated plans to design structures.
ARCH.9-12.9.4.12.B.2	Demonstrate mathematics knowledge and skills required to pursue the full range of postsecondary education and career opportunities.
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.
ARCH.9-12.9.4.12.B.52	Employ mentoring skills to assist others.
ARCH.9-12.9.4.12.B.74	Read, interpret, and use technical drawings, documents, and specifications to plan a project.

Essential Questions

1. Why do product designers produce isometrics pictorials?

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 (See Below):

- 1. Students will draw various Isometric Pictorials from given two-dimensional views.
- 2. Students will learn how to Layout/place Isometric Pictorials on a plan/sheet.