Unit 1: Technical Drafting Fundamentals

Content Area: **Technology**
Course(s):
Time Period: **September**
Length: **8-9 Blocks**
Status: **Published**

Enduring Understandings

1. Line weights are an important technique used to show depth and contrast.

2. Shading can be accomplished using different types of lines

3. Drafting is a form of communication and all lines must be easily understood

4. Communicative Drafting is completed using a layers mindset

5. The use of different line / hatching types helps to communicate different details

Essential Questions

1. How can line weights be used to show depth?

2. How can lines be used to show shade and shadow?

3. What stakeholders need to be able to understand your drawings?

4. Why is clean and neat lettering so important?

Content

Lettering, Line Weights, Shade, Shadow, Vellum, Tracing Paper, Elevation Drawing, Section Drawing, Plan Drawing, Isometric Drawing

Skills

1. Students will be able to use at least 3 lines weights to show depth and space within their drawing.

2. Students will be able to use different line types to communicate design details and shade and Shadow

3. Students will be able to create clean and neat drafting drawings

4. Students will be able to produce drawings that are communicative and easy to understand

Resources

Drafting Pencils with a minimum of 3-5 line weights, tracing paper, drafting vellum, masking tape, 24in T Square, Architectural Scale Ruler

Standards

CTE 9.3.12.AC.6: Read, interpret and use technical drawings, documents and specifications to plan a project.

CTE 9.3.12.AC.1: Use vocabulary, symbols and formulas common to architecture and construction.

CTE 9.3.12.AC-DES.6: Apply the techniques and skills of modern drafting, design, engineering and construction to projects.

9.3.12.AC-DES.7: Employ appropriate representational media to communicate concepts and project design.