

Mountlake Terrace High School

Drafting Technology

Unit 5:

Title: Sketching Three-View Drawings

Unit Objectives:

The student will be able to:

1. Freehand sketch with reasonable accuracy.
2. Sketch a three-view drawing (also called an orthographic projection) from an isometric drawing and use hidden and centerlines properly.
3. Use correct line weights for construction lines (very light), object lines (dark, sharp lines), and hidden lines (medium), and lettering.

Textbook: *Basic Technical Drawing* by Spencer

Chapter 6: Views of objects

Reading Assignment: pp. 72-89: Study every picture and read each caption. Additionally read any sections necessary for clarification of any concept not fully understood through the pictures. **Take careful note of Fig. 178 on page 74, Fig. 192 on page 82, and Fig. 194 on page 83.**

Chapter 7: Techniques and Applications

Reading Assignment: pp. 90-115: Study every picture and read each caption. Additionally read any sections necessary for clarification of any concept not fully understood through the pictures. **Take careful note of Fig. 192 on page 74.**

Plate 1:

p. 86 --> **Fig. 200-1 to 4: Sketching 3-Views from Isometrics**
NOTE: Be sure to use hidden lines

Plate 2:

p. 86 --> **Fig. 200-5 to 8: Sketching 3-Views from Isometrics**
NOTE: Be sure to use hidden lines

Plate 3:

p. 86 --> **Fig. 200-9 to 12: Sketching 3-Views from Isometrics**
NOTE: Be sure to use centerlines & hidden lines

Plate 4:

p. 87 --> **Fig. 201-1 to 20: Pick 4 Isometrics to Sketch. Higher numbered objects are harder and thus worth more points.**
NOTE: Be sure to use centerlines & hidden lines

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