

# **Mountlake Terrace High School**

## **Drafting Technology**

### **Unit 1:**

**Title:** AutoCAD Introduction

**Unit Objectives:**

The student will be able to:

1. Start AutoCAD and title and setup a drawing.
2. Properly use the three coordinate systems: absolute, relative, and polar.
3. Properly use the following commands: O-Snaps (Object Snaps), Text, Dimensioning, Arc, and Circle.
4. Properly insert and personalize a title block.

**Textbook:** Beginning AutoCAD Workbook

**Preliminary:**

See Instructor to be assigned to an AutoCAD station.

Obtain a secure sub folder in your period folder.

Start AutoCAD with the Acadlt2000 template. Save your drawing using your Lastname, Firstname, and your Unit and Plate number. Use a "\_" between words and a "01" (for Unit 1), and a "1" (for Plate 1)

**M.T.H.S. Standard Drawing Filename Sample:**

Lastname\_Firstname\_01-1\_Filename

(the ".dwg" suffix will be added automatically)

Learn the 3 coordinate systems (pp. 1, 2, & 3).

### **Plate 1:**

**V-block** (coordinate systems)

Start at 0,0 and go counter-clockwise.

Try on your own before looking at instructions.

### **Plate 2:**

Read p. 12 on object O-Snaps and try them like on p. 13.

**Pump Spacer**

Start at 1.332,0 and go counter-clockwise

Try on your own before looking at instructions.

### **Plate 3:**

**Bit gauge** (dimensions & text)

Start at lower left as 0,0 and go C.C.W.

Dimension it and include text

Try on your own before looking at instructions.

### **Plate 4:**

**Mounting bracket** (I.D., Arcs, Circles)

Start at lower left as 0,0 and go C.C.W.

Try on your own before looking at instructions.

Be sure to include centerlines for all circles.