

Orthographic Drawing #1 – Assignment #3

1. Get a piece of blank 11" x 17" paper from the teacher.
2. Setup the paper on a drafting board in landscape. Using a T-square, line up the top edge of the paper so it is parallel to the T-square. Tape the 4 corners down to secure it in place.
3. Using the T-square and set square draw a 10mm boarder all the way around the outside. Use LIGHT CONSTRUCTION LINES. They will be darkened later.
4. In the bottom right corner, draw a title box for your name that is 45mm high and 100mm long. Divide it into 3 horizontally. Divide the middle and lower boxes in half vertically
5. In the top block of the title block, lightly draw 2 parallel lines 10mm apart that are centred in the block. Neatly print the Title – Orthographic #1. In the middle block, draw 2 parallel lines 5mm apart that are centred in the block. Neatly PRINT your name in the left one and the date in the right one. Finally ,in the lower left one, put in the scale 1:2.
6. Quickly sketch the object on a piece of 8 ½" x 11" paper to get the proportions right. You have to consider spacing and dimensions. When the good drawing is finished the three views **WILL BE CENTRED** on the paper.
7. Start your good copy by drawing the front view. Use light construction lines to draw the object, but also to extend past the object to create parts of the top view and side view.
8. Measure the spacing up from the front view (including dimensions) and draw the top view of the object again with construction lines extending the lower line to the right of the page.
9. Measure the spacing between the front view and the side view, (remember to include dimensions). Draw a vertical line until it intersects with the line drawn from the lower right of the top drawing. Where the lines from the two meet, draw a 45 degree line up to the right.
10. Using the lines from the top drawing, project them across to the 45 degree angle and then down to finish forming the objects side view.
11. Erase all unnecessary lines.
12. Dimension the object – You need the overall dimensions and the detailed dimensions. You only need 9 dimensions.
13. Draw text that is 10mm tall that says "ALL DIMENSIONS IN INCHES" centred in the top right area of your drawing
14. Darken in ALL lines
15. Submit for marking

Marking Criteria

Drawn correctly _____/10
(nothing missing, size on paper)

Instructions followed _____/5
(title block, position, dimensioned, centred, etc)

Appearance _____/5
(no smudges, lines meet perfectly, lines darkened, etc)

Name: _____