



Engineering Virtual Learning

# HS Machine Drafting Lesson #18

April 29, 2020



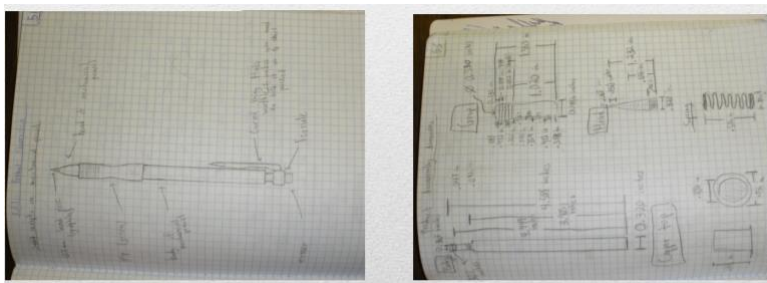
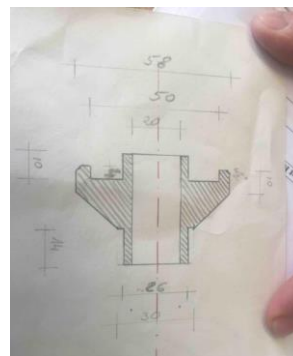
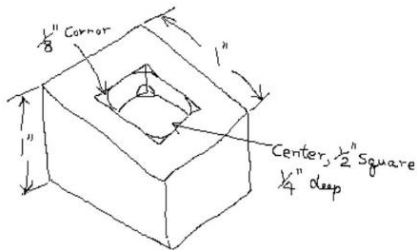
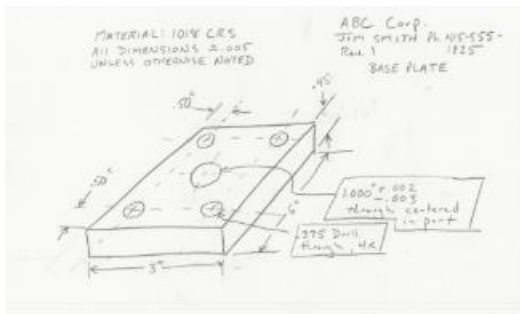
## **Objective/Learning Target:**

Students will create a cardboard “Free Throw” game and produce a complete set of working sketches.

Day 3 Dimensioned Sketches  
(this activity is day 3 of a 4 day project)

# Bell-work:

You don't always need AutoCAD to create Engineering Sketches.  
Look at some of the dimensioned hand sketches below.



Do you think you could build these items from these sketches?  
(record you thoughts in your engineers notebook)

# Learning Practice: “Dimensioned Sketches”

Gather the sketches you made while you were building and re-engineering your Free Throw game.

Using these sketches with your dimensions, Create a set of dimensioned sketches on graph paper. You can use your engineers notebook, print the graph paper from page 6 or get it off the internet link in resources.

There are Videos on scaled drawings in the resources links, but you do not need to scale your drawings. Neat drawings with good dimensioning is preferred.

Remember your lettering skills when adding notes to your drawings and completing the title blocks.

# Learning Resource Links:

Scale Drawings:

<https://www.youtube.com/watch?v=Cag7m-Y-4vw>

<https://www.youtube.com/watch?v=l32k26tn26U>

<https://www.youtube.com/watch?v=XUOPGqKGbjk>

Grid and Isometric Graph paper:

[https://www.printablepaper.net/category/isometric\\_graph](https://www.printablepaper.net/category/isometric_graph)

What is Reverse Engineering?

<https://www.youtube.com/watch?v=Y0h6eGrwVKQ>

<https://www.youtube.com/watch?v=8VOcnNekTjw&list=PLSQI0a2vh4HDNGLPZvl2UTyuOuLOXXn0I>

Do It Yourself basketball game –

<https://www.youtube.com/watch?v=ZfaAJrwcU>

<https://www.youtube.com/watch?v=wNtNtOIJQk>

**NAME**

**TITLE**

**DATE**

**PERIOD**