



**Engineering Virtual Learning**

**HS Machine Drafting  
Lesson #19**

**April 30, 2020**



## **Objective/Learning Target:**

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

Day 4 Assembly Drawing  
(this activity is day 4 of a 4 day project)

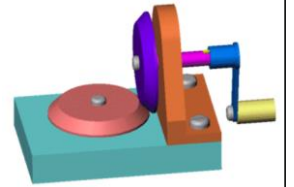
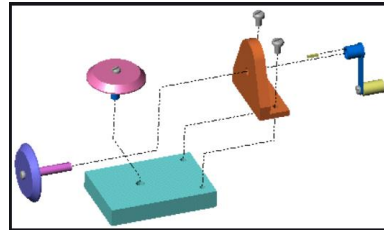
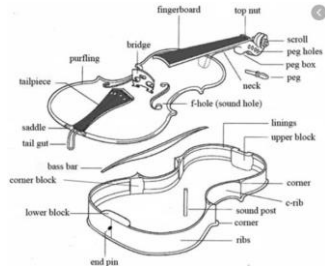
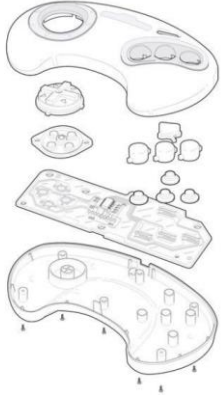
# Bell-work:

If someone saw your “Free Throw” game and wanted to build one of their own, you could give them your scale drawings that you created yesterday, but how would they know how it went together?

This video talks about an Assembly Drawing.

<https://www.youtube.com/watch?v=I9PI8qmcww8>

**Assembly Drawings  
show how to put  
something together**



# Learning Practice: Assembly Drawings

**Today's Job:** After watching the video on the previous page create an assembly drawing for your "Free Throw Game." Think about communicating to someone in a drawing how to assemble your game.

You will need to use your sketches, project and scale drawings for this activity.

Work in your engineers notebook to document each drawing or print graph paper on page 6 or using the resource link on page 5.

# 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?

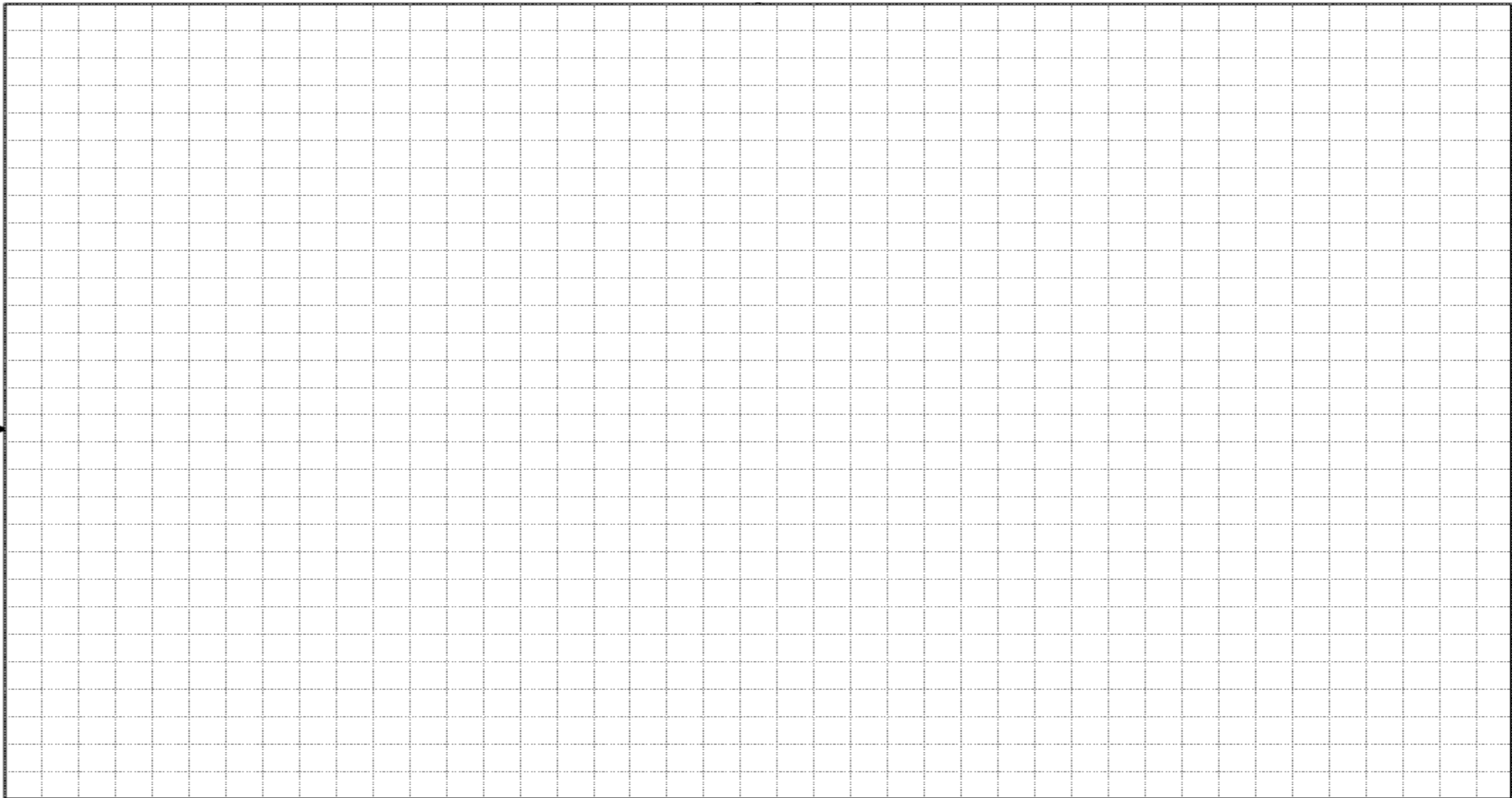
<https://www.youtube.com/watch?v=Y0h6eGrwVKQ>

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

Do It Yourself basketball game –

[https://www.youtube.com/watch?v=ZfaAJrwcU\\_U](https://www.youtube.com/watch?v=ZfaAJrwcU_U)

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



**NAME**

**TITLE**

**DATE**

**PERIOD**