



Engineering Virtual Learning

# HS Mechanical Drafting Design Lesson #13

April 22, 2020



**Objective/Learning Target:**  
Students will continue to sketch  
complex Isometric drawings.

## Let's Get Started:

Look around your house for something that has an interesting shape. Not too hard or too easy, but something that interests you like a fishing reel or game controller. Decide which face should be the front view. This should be the longest side and show the most detail. Now get a pencil, paper and a big eraser. Try your hand at sketching an Isometric view of this complex object.

You may print and use the Isometric paper on page 5. For a challenge use the graph paper on page 6 or even plain white paper like in the videos.

# Learning Resource Links:

## Hand Sketching:

<https://www.youtube.com/watch?v=Lg06QqoFKxY>

<https://www.youtube.com/watch?v=p98An-oYdSc>

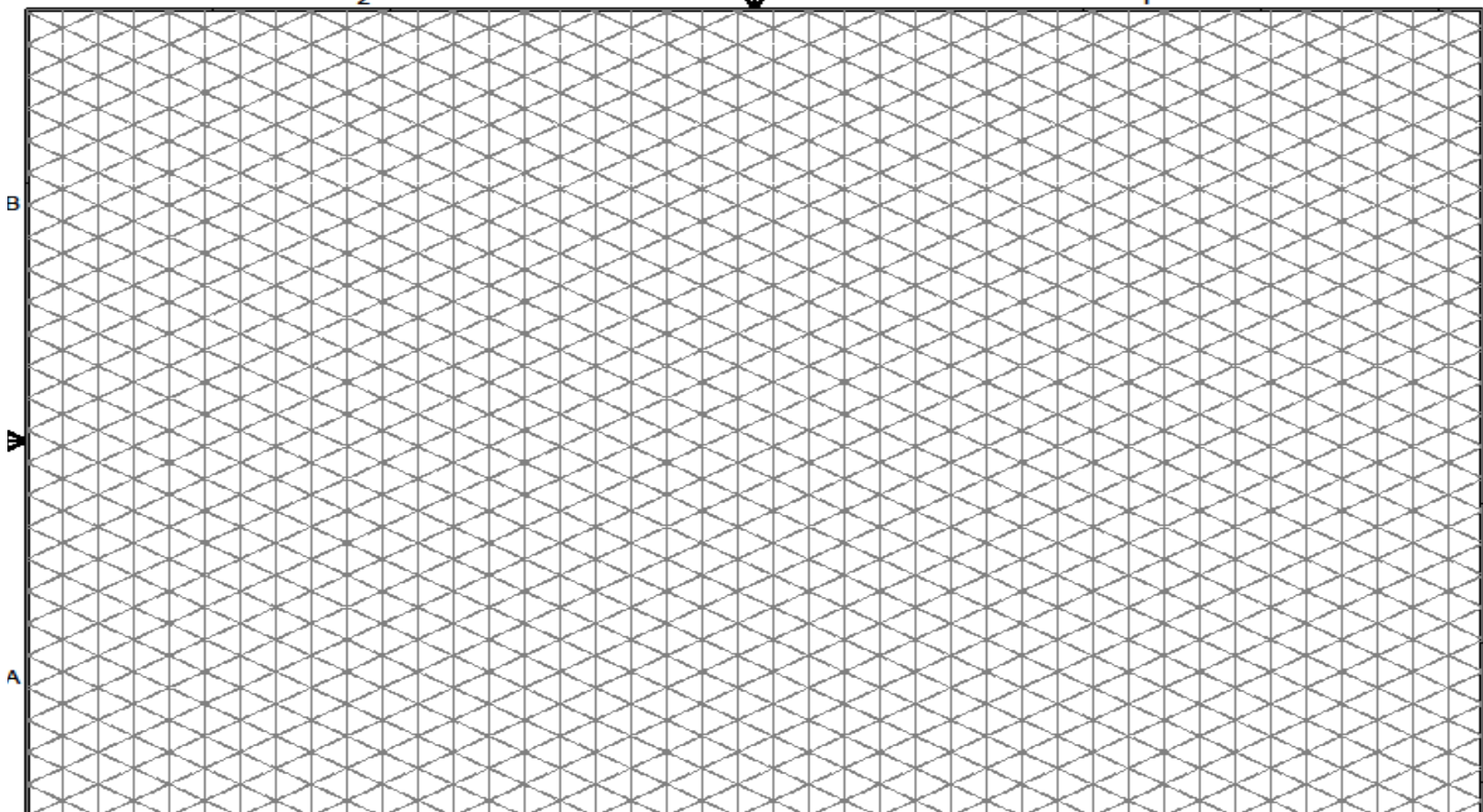
## Faces and edges:

<https://www.khanacademy.org/math/basic-geo/basic-geometry-shapes/basic-geo-geometric-solids/v/counting-faces-and-edges-of-3d-shapes>

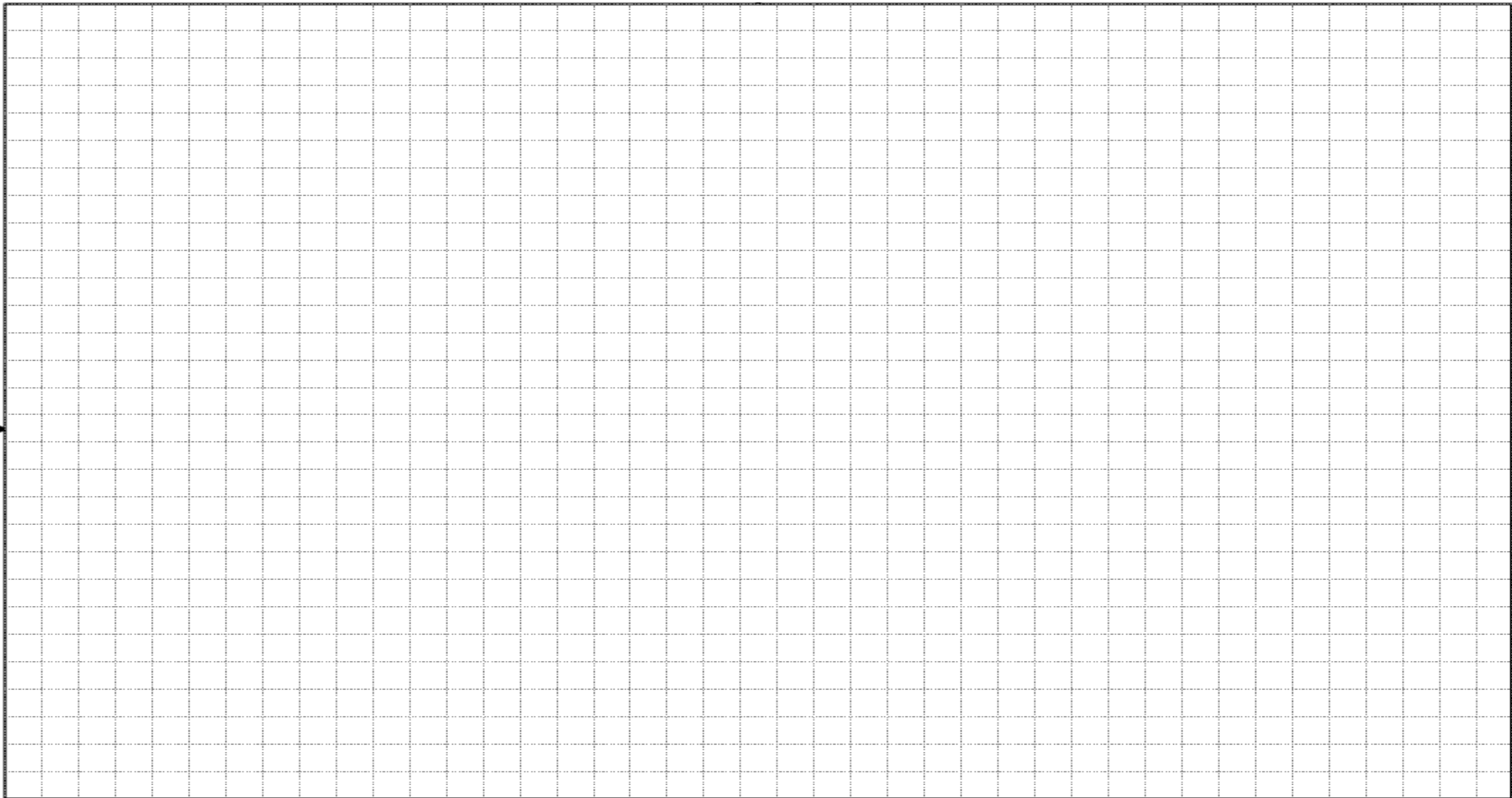
<https://www.khanacademy.org/math/basic-geo/basic-geometry-shapes/basic-geo-geometric-solids/e/identify-parts-of-3d-shapes>

## Grid and Isometric Graph paper:

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



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