Geometry: 2D and 3D

**CORE STANDARDS**

G.GMD.4

LESSON

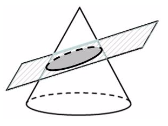
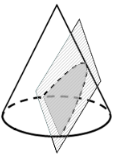
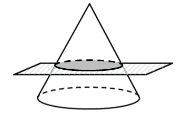
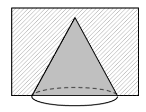
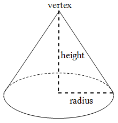
**10-1**

Secondary Math 3

OBJECTIVE **1. I can describe the shape created by slicing a 3 dimensional shape.**

**2. I can describe the shape created by rotation a 2 dimensional shape.**

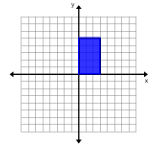
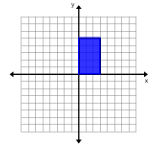
NOTES Slicing:

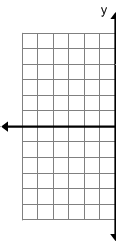
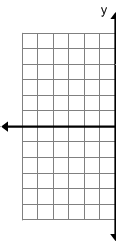


1. Create a cylinder
   1. What shape do you get slicing it vertically?
   2. What shape do you get slicing it horizontally?
   3. How would you slice the cylinder to get a parabola?
2. Create a square-based pyramid
   1. How would you slice it to get a square?
   2. What shape do you get slicing it diagonally?
   3. Can you slice a square-based pyramid to get a pentagon?

Rotating:

1. Rotate around x-axis 4. Rotate around y-axis 5. Rotate around x-axis

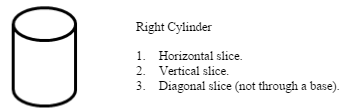
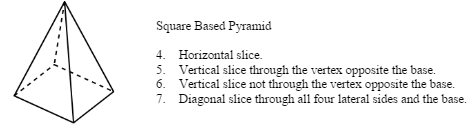
  

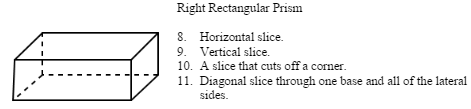
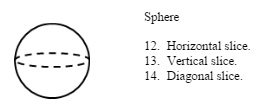


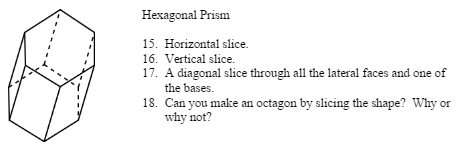
PRACTICE **10-1** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[SHOW YOUR WORK]

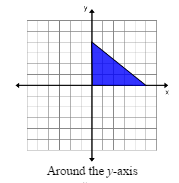
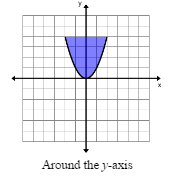
Determine the two-dimensional cross-section that is created from each slice described.

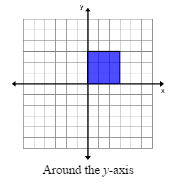


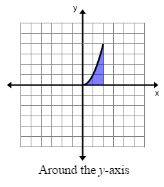




Sketch the result of rotating each shape around the given axis

19. 20. 21.



22. 24. 25. 