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. 