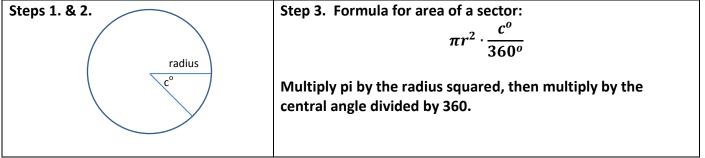
Geometry

Unit 9 Surface Area – Break It Down

Target: I can explain the variables in a surface area formula using proper terminology for parts and operations.

- 1. Draw an example figure for each 3-dimensional figure named.
- 2. Label the parts of the figure, such as height, radius, length, width.
- 3. Rewrite the formula next to the figure and then use words to tell what is calculated in the formula. Give a description for what each variable represents.

**If I were to have followed these directions for finding the area of a sector (in our last unit on area), I would...



Be sure to follow all steps, include as many labels as you can think of (no numbers!) And use a tool to make pictures as clean and clear as you can. Your student ID makes a great straight edge for lines.

Prism (include rectangular base and	
polygonal base – two separate figures)	
Cylinder	

Pyramid	
Cone	
Cone	
Sphere	

Quick check – do you have this in your table? Can you tell what each variable represents?PrismsCylindersPyramidsConesSpheresSA = 2B + Ph $SA = 2\pi r^2 + 2\pi rh$ $SA = B + \frac{1}{2}Pl$ $SA = \pi r^2 + \pi rl$ $SA = 4\pi r^2$ $(or SA = 2\pi r^2 + \pi Dh)$ P =______P =______P =______r =______h =______h =______l =______P =______P =______