



Dear Eighth Grade Families,

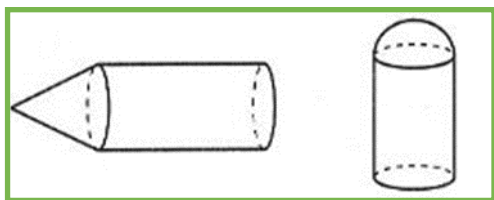
In Unit 11, students will work on the following eighth grade Common Core standards in the Geometry (G) domain.

8.G.9	Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.
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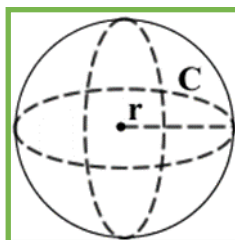
Unit 11 Concept:

- Volume of cylinders, cones, spheres & composite figures

**Composite Figures**



**Sphere**



Unit 11 Vocabulary:

- Volume
- Cylinder
- Cone
- Height of cone
- Sphere
- Hemisphere
- Composite figures



**Volume of a Cylinder**

$$V = B \cdot h, \text{ where } B = \pi r^2$$

Ask questions like these to help your child as a productive mathematical thinker:

- How does drawing a visual representation help you to solve the problem?
- Describe how to determine the volume of a figure.
- What have you learned previously that will help you with these lessons?
- How does the diameter relate to the radius?
- How would describe the height of a cone?

Need a review? Check out our lesson videos online!

[swunmath.com/student-videos](http://swunmath.com/student-videos)

If you don't know the class's special name, ask your child's teacher.

We encourage you to talk with your child daily about what was learned in math class.  
Thank you for your support!