



Dear Seventh Grade Families,

In Unit 7, students will work on the following seventh grade Common Core standards in the Geometry (G) domain.

7.G.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
7.G.6	Solve real-world and mathematical problems involving area, volume, and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

Unit 7 Concepts:

- Area and circumference of a circle
- Area of composite figures
- Surface area of prisms, cylinders & pyramids
- Volume

Unit 7 Vocabulary:

- Circle
- Diameter
- Radius
- Chord
- Circumference
- Pi
- Compass
- Composite figure
- Decompose
- Area
- Face
- Surface area
- Net
- Volume

Area Formulas:

Square: $A = bh$

Parallelogram: $A = bh$

Rectangle: $A = bh$

Circle: $A = \pi r^2$

Triangle: $A = \frac{1}{2}bh$

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

- What are the parts of a circle?
- What is pi as a decimal and fraction? What does it mean?
- Explain why the formula for volume can also be written with a B?
- How are surface area and lateral surface area the same? Different?
- What are some real-world examples of using a net?

Need a review? Check out our lesson videos online!

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!