



Common Core Math Newsletter

6th Grade Advanced Math

Unit 4: Geometry

Standard

6.G.A.1

- Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes
- apply these techniques in the context of solving real-world and mathematical problems.

6.G.A.2

- Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism.
- Apply the formulas $V = lwh$ and $V = bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.

6.G.A.4

- Represent three-dimensional figures using nets made up of rectangles and triangles
- Use the nets to find the surface area of these figures
- Apply these techniques in the context of solving real-world and mathematical problems.

7.G.B.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



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Vocabulary

area	The area of a flat, or plane figure is the number of unit squares that can be contained within it. The unit square is usually some standard unit, like a square meter, a square foot, or a square inch.
circumference	The distance around the outside of a circle.
diameter	A line segment between two points on the circle or sphere which passes through the center.
pi	The ratio of the circumference of a circle to its diameter ; also known as 3.14.
radius	A line segment between the center and a point on the circle or sphere.
surface area	The total area of the surface of a three-dimensional object.
volume	The measure of the amount of space a solid figure occupies

Additional Resources

IXL.com Topics

6th and 7th Grade Geometry

LearnZillion.com videos

- https://learnzillion.com/lesson_plans/5325-find-the-area-of-polygons-by-decomposing-into-triangles-rectangles-parallelgrams-and-trapezoids (Quick code—5SV9Q9H)
- https://learnzillion.com/lesson_plans/5815-find-the-volume-of-a-rectangular-prism-by-filling-it-with-unit-cubes (Quick code—RR37T9T)
- https://learnzillion.com/lesson_plans/8987-represent-three-dimensional-figures-with-nets (Quick code—XF4FF36)