



Area, Volume, and Surface Area in Geometry

Today's Standard

7.G.B6 - 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.

Real-World Applications for this Standard

Calculating the surface area of a gift box to determine how much wrapping paper is needed.; Finding the volume of a swimming pool to decide how much water it will hold.; Determining the area of a garden plot for planting vegetables.; Designing a 3D model for a school project and calculating its surface area and volume.

Today I Learned

Today, we learned how to solve problems involving the area, volume, and surface area of different shapes like triangles, squares, and cubes.

Common Stumbling Blocks

Sometimes, kids mix up the formulas for area and volume. Area is for flat shapes, and volume is for 3D objects. They also might think all shapes use the same formulas, but each shape is different.

Quiz Me

- What is the area?
- What is the volume?
- What is the surface area?
- How do you find the area of a triangle?
- Can you name a real-world object that has volume?

Help Me

The area is the space inside a flat shape. Volume is how much space is inside a 3D object. Surface area is the total area of all the outside surfaces of a 3D object. We use these ideas to do things like wrap presents or fill a pool with water.