

What is Volume?

Fifth Grade

In this lesson, students will recognize volume as an attribute of solid figures and learn to calculate volume by counting cubes. This is a great introduction to the formula $V = L \times W \times H$.

Learning Objectives

Students will recognize volume as an attribute of solid figures and calculate the volume of simple rectangular prisms by counting cubic units.

Materials and preparation

- Sets of base ten blocks or individual cubes
- Two containers (glass, vase, etc.) that can hold water
- Small round objects (marbles, ping pong balls, etc.)
- One container that is a rectangular prism (a box or geometric manipulative that is an empty cube)
- Water
- Sticky notes

Key terms

- volume
- cubic units

Introduction (10 minutes)

- Show students the two containers, one filled partly with water.
- Ask your class how much water they think is in the filled container. Students will likely guess using cups as a unit. Record and praise their guesses, acknowledging the units they are using.
- Wonder aloud how you might measure how much “space” is inside the containers. Let them struggle with this idea as they consider using different strategies. You don’t need to solve this right now, just get them wondering and strategizing.
- Now show them a rectangular prism and ask if it would be easier to measure the space in this container or the glass, again, just getting them thinking.
- Come back to the idea of units. Ask them to work in groups to think of a unit that could measure space inside of objects. Give students 2 minutes to discuss this in groups.

Explicit Instruction/Teacher modeling (5 minutes)

- Have each group share out their thinking. Discuss the different units they propose. It’s okay if groups struggle and don’t have an idea.
- Propose using marbles or circles to measure the space. Ask how many marbles (or other size cylinders) might fit inside the objects you have.
- If no student has raised this concern, ask students if the cylinders account for *all* of the space in the figure. Students should note that since they don’t fit exactly together, there will be space not measured in between them.
- Ask students what shape might work better—ones that fit flush without extra space in between.

Lesson Plan Measuring Volume

David Baud



Lesson Plan Measuring Volume:

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