

Math Playlist - Volume

Student Learning Objectives

- Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.
- Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication.
- Apply the formulas $V = l \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real-world and mathematical problems.

Volume Lesson

Watch the two videos: [Volume Introduction](#) (7:50) <https://youtu.be/7WloKabLhII> (2:12)

Must Do! (check the box when completed)

1. Volume Assignment - Tenmarks

Directions: Login to Tenmarks and complete the assignment: **Find the volume of rectangular prisms**

2. Inquiry-Based Learning Lab - Measuring Volume - Shipping Containers

Directions: Complete the learning lab on Tenmarks

3. Volume Practice Grab a whiteboard for your work.

[Cubes-Calculate the volume](#) Take the quiz

[Cubes-Side View](#) Take the quiz

[Cube Perspective Game](#)

[Minecraft Volume Game](#) Practice. Beat your score.

4. Volume Quiz

[Volume Quiz](#)

May Do! (check the box when completed) Due: Extended Due Date/Ongoing

1. Teach it! Be the teacher!

Directions: Teach the class how to solve a volume word problem. Do not forget to explain why the answer is in units cubed.

Make a teaching video on our class student teacher Padlet: [Student Teachers in Action](#)

2. Code it! Code Academy or Tech Rocket

Directions: Have you ever wanted to learn how to code? Login to [Code Academy](#) or [Tech Rocket](#) to begin!

3. Tenmarks Jam Session

Directions: Complete a jam session on expression review.