

리 3 levels

Probing Questions

- What happens when you hang things on the hooks?
- What do you think the scale is for?

Something to Think About

Students may not have experience with Slinkys. It may be helpful to discuss what they do and, if possible, allow students to play with one.

What Concepts Are Being Developed? Students will benefit from hands-on experience with

comparing the masses of different objects using a balance scale. Putting three objects in order by mass can be challenging.



Students may need to test each weight with several other weights.



Mass and Volume - 2

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Helicopter Volume

Grade 3

Mass and Volume

리 4 levels

Probing Questions

- How do you know how many helicopters to choose?
- How do you see the pieces dropping into the wall?

Something to Think About

Though students aren't finding the volume, they are working with finding the missing dimension of a rectangular prism. Connecting this to volume helps move this beyond a plug and chug formula.

Classroom Connection

Use linking cubes to represent the hanging blocks. Ask students to create walls. Explore the different configurations that will and will not work. Look for patterns. How does the wall change when one more set of blocks is added?



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리 5 levels

Probing Questions

- How do you find how many cubes there are?
- How do you know how many cubes are in that layer?
- How are you breaking this apart in your mind?

What Strategies Are Being Used?

Students struggle when the shapes become more complicated. Ask how students are decomposing the figures and how they account for the cubes that are not visible in the drawing.

Classroom Connection

This game is a great place to really understand that volume is not just a formula. Let students build the shapes. Share strategies for finding the volume and connect counting strategies to multiplication.

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Students may benefit from building some of the shapes.

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Mass and Volume - 5