



Name: _____

Date: _____

Student Exploration: Measuring Volume Part B

Vocabulary: cubic centimeter, diameter, graduated cylinder, meniscus, milliliter, pipette, radius, rectangular prism, sphere, volume, water displacement

Activity B: Regular solids

Get the Gizmo ready:

- Select the **Free Exploration** mode.
- Return all items to the cabinet.
- Drag the **block** and the **ruler** to the counter.
- You will need a calculator for this activity.



Introduction: The volumes of regular solids, such as spheres (balls) and **rectangular prisms** (blocks), can be determined by measuring their dimensions. The volume of a solid is usually expressed in **cubic centimeters** (cm^3). One cubic centimeter is exactly the same volume as 1 milliliter.

Goal: Measure and calculate the volume of a rectangular prism and a sphere.

1. **Observe:** Count the squares in the rectangle at right to find its area.

A. What is the area of the rectangle? **8cm^2**



B. How does the area of the rectangle relate to the lengths of each side? **The more you add to each side the greater the area will be.**

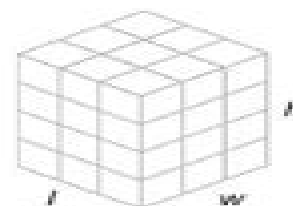
2. **Observe:** A block is an example of a rectangular prism. A rectangular prism has six rectangular faces. Look at the block shown below. Each cube inside the block has a 1-cm side and a volume of 1 cm^3 , or 1 mL.

A. What are the length, width, and height of the block?

Length: **3cm** Width: **3cm** Height: **4cm**

B. Multiply these three dimensions. What is the product of the length, width, and height? **36cm^3**

C. How many cubic centimeters are in the block? **36cm^3**



3. **Measure:** Just as the area of a rectangle is the product of its length and width, the volume of a rectangular prism is equal to the product of its length, width, and height. In the Gizmo, place the ruler over the block.

(Activity B continued on next page)



Measure Up Student Activity Answer Key

Chris Forest



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Measurement and Data: Measure Up Practice Suzanne Barchers, 2014-02-01 This resource is designed to be robust and relevant to the real world helping students prepare themselves for life beyond school Students will gain regular practice through these quick activities Perfect for additional practice in the classroom or at home

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