



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** ( $\text{cm}^3$ ). 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?  **$8\text{cm}^2$**



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.**

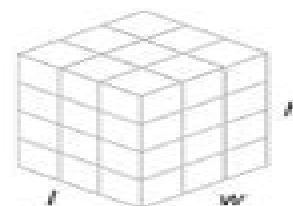
2. **Observe:** A block is an example of a rectangular prism. A rectangular prism has six rectangular faces. Look at the block shown below. Each cube inside the block has a 1-cm side and a volume of  $1\text{ cm}^3$ , or 1 mL.

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

Length:  **$3\text{cm}$**  Width:  **$3\text{cm}$**  Height:  **$4\text{cm}$**

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

C. How many cubic centimeters are in the block?  **$36\text{cm}^3$**



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**



## Measure Up Student Activity Answer Key:

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 $3\text{Ca(OH)}_2 + 1\text{Al}_2\text{SO}_4 \rightarrow 3\text{CaSO}_4 + 2\text{Al(OH)}_3$  type of reaction double displacement  
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 $2\text{Al(OH)}_3 + 3\text{CaSO}_4 \rightarrow 2\text{Al}_2\text{SO}_4 + 3\text{Ca(OH)}_2$  type of reaction double displacement  
 $2\text{Fe} + 3\text{MgO} \rightarrow 2\text{FeO} + 3\text{Mg}$  type of reaction single displacement

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 $\text{NaOH} + \text{KNO}_3 \rightarrow \text{NaNO}_3 + \text{KOH}$  type of reaction double displacement  
 $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$  type of reaction combustion  
 $2\text{Fe} + 6\text{NaBr} \rightarrow 2\text{FeBr}_3 + 6\text{Na}$  type of reaction single displacement  
 $\text{MgSO}_4 + 2\text{NH}_4\text{OH} \rightarrow \text{Mg(OH)}_2 + (\text{NH}_4)_2\text{SO}_4$  type of reaction double displacement  
 $\text{C}_4\text{H}_8 + 6\text{O}_2 \rightarrow 4\text{CO}_2 + 4\text{H}_2\text{O}$  type of reaction combustion  
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