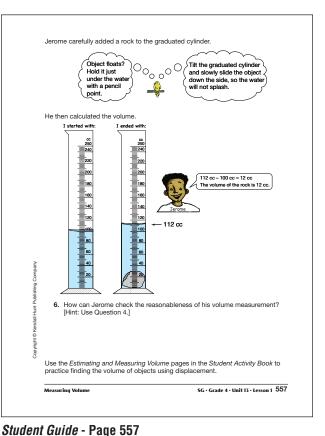
Answer Key • Lesson 1: Measuring Volume

6. Jerome should compare his measurement to his estimate.

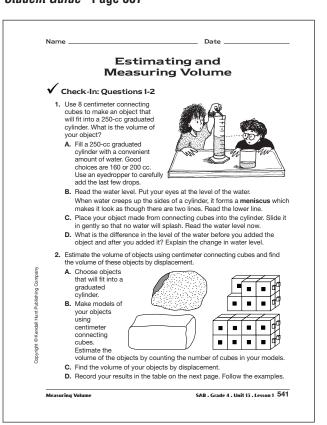


Student Activity Book

Estimating and Measuring Volume (SAB pp. 541–542)

Questions 1–4

- 1. 8 cc
- **A–C.** Observe students as they follow directions.
 - **D.*** 8 cc; The cubes displaced or pushed away 8 cc of water, so the water level went up.
- **2.** Estimates and volumes will vary based on models made.



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V	olume Data Ta	ble	1
Object	Estimated Volume from Cube Model	Volume by Displacement	
Rock	11 cc	12 cc	
Clay	16 cc	15 cc	
3. A. Were y	pur estimates clos	se to your measu	red volumes? Why or why not?
 B. Which 4. Frank mad counting the when he n 	estimates were cl le a model of a m ne cubes, he estir neasured the volu	osest to the measures to the measures of the measures of the mater of that the marker using a gradu	
 B. Which 4. Frank mad counting the when he n 	estimates were cl le a model of a m ne cubes, he estir neasured the volu	osest to the measures to the measures of the measures of the mater of that the marker using a gradu	red volumes? Why or why not? sured volumes? Why? meter connecting cubes. By arker has a volume of 14 cc.

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- **3. A.*** Answers will vary. Possible response: Some of my estimates were not close to my measured volumes. It was difficult to make the centimeter connecting cube model look exactly like the object I was measuring.
 - **B.*** Possible response: The estimates for the objects that more closely resembled the connecting cube models were easier for me to build and to use to estimate the measured volume.
- **4.*** Answers will vary. The marker is slightly thinner than one cm and the marker tapers off at the ends. There may also be measurement error.

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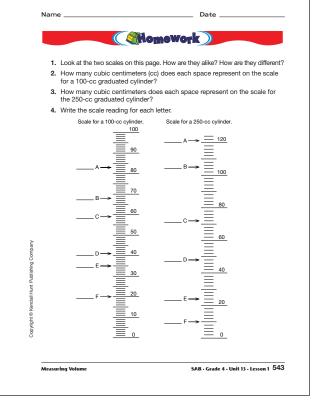
Homework (SAB pp. 543-544)

Questions 1–5

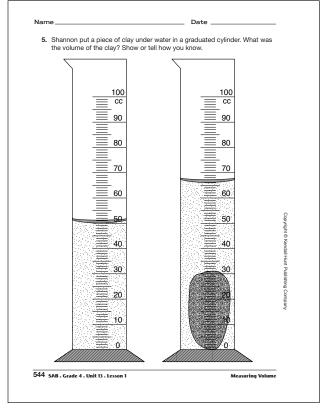
- 1. Answers will vary. Students may notice that each scale goes up to about 100 and that they both start at zero. On the 100-cc scale, the multiples of 10 are written on the scale. On the 250-cc scale, the multiples of 20 are written on the scale.
- **2.** 1 cc
- **3.** 2 cc
- **4.** 100 cc cylinder:
 - A=83 cc
 - B=68 cc
 - C=59 cc
 - D=41 cc
 - E=35 ccF=20 cc

250 cc cylinder:

- A=121 cc
- B=105 cc
- C=72 cc
- D=48 cc
- E=24 cc
- F = 10 cc
- **5.** 16 cc. The water rose from 50 cc to 66 cc. 66 50 = 16 cc.



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