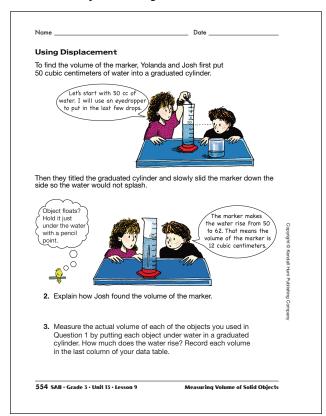
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## **Yolanda Measures Volume** by Displacement Estimating Volume Yolanda estimated the volume of a marker by building a model of it with her centimeter connecting cubes. She counted the cubes and estimated that the volume was about 14 cubic centimeters. Use centimeter connecting cubes to estimate volumes as Yolanda did. Make models of at least four objects. Your teacher will help you choose objects. One of your objects should be 10 centimeter connecting cubes as shown in the table below. Record your estimates in the data table. Yolanda's data for the marker is shown. Volume By Displacement Volume by Displacement Estimated Volume Object from Cube Model Marker 14 cc 12 cc SAB · Grade 3 · Unit 13 · Lesson 9 553 Measuring Volume of Solid Objects

### Student Activity Book - Page 553



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\*Answers and/or discussion are included in the lesson.

# TG · Grade 3 · Unit 13 · Lesson 9 · Answer Key

### **Student Activity Book**

# Yolanda Measures Volume by Displacement (SAB pp. 553–554) Questions 1–3

- 1.\* Items' estimated volumes will vary. See Figure 2 in the lesson for a sample data table.
- 2.\* Possible response: The water level started at 50 cc. Josh slid the marker into the cylinder and the marker pushed the water level up to 62 cc. The marker displaced its volume in the water. 62cc 50cc = 12 cc. The marker's volume is 12 cc.
- **3.\*** Items' actual volumes will vary. See Figure 2 in the lesson for a sample data table.