



Science Toolkit: Grade 5 Objective 1.A.1.b

Student Handout: Science: Grade 5 Objective 1.A.1.b

Standard 1.0 Skills and Processes

Topic A. Constructing Knowledge

Indicator 1. Gather and question data from many different forms of scientific investigations which include reviewing appropriate print resources, observing what things are like or what is happening somewhere, collecting specimens for analysis, and doing experiments.

Objective b. Select and use appropriate tools hand lens or microscope (magnifiers), centimeter ruler (length), spring scale (weight), balance (mass), Celsius thermometer (temperature), graduated cylinder (liquid volume), and stopwatch (elapsed time) to augment observations of objects, events, and processes.

Selected Response (SR) Item

Question

Use the information below to answer the following.

Students used two textbooks and a board to make a ramp. The students rolled Ball 1 down the ramp. They measured the distance the ball traveled in 10 seconds. The students repeated the investigation, using Ball 2. The students calculated the average speed of each ball after five trials and recorded the information in the data table below.

**DATA AFTER FIVE TRIALS**

Ball	1	2
Mass (grams)	5	10
Average Distance (centimeters)	25	30
Time (seconds)	10	10
Average Speed (centimeters per second)	2.5	3.0

Which of these tools should students use to find the distance each ball rolled?

- A. a balance
- B. a hand lens
- C. a stopwatch
- D. a metric ruler

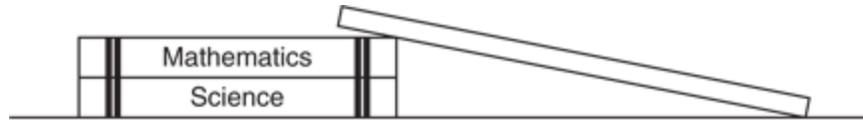
Correct Answer

D. a metric ruler

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