

Measure It Fairly

Plan a fair test and choose measurement tools.

2.1.b “planning and carrying out investigations with guidance, plan and conduct simple investigations to produce data use appropriate tools to measure length, weight, and temperature of common objects using U.S...”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline each tool in the passage. Circle every measurement and its unit to show how the group planned to collect data.

Paper Towel Test

- ① To compare two paper towels, Ana’s group asked, “Which towel holds more water?” They planned to test one sheet of each kind. They would use the same amount of water and keep the water at the same temperature.
- ② Before testing, the group measured each dry sheet with a ruler in inches. They weighed each dry sheet on a scale in ounces. A thermometer showed that the water was 70 degrees Fahrenheit. A stopwatch measured each soaking time in seconds.
- ③ Both sheets were 11 inches long. Towel A weighed 1 ounce and soaked for 10 seconds. Towel B weighed 1 ounce and also soaked for 10 seconds. The group recorded how much water each towel held in a data table.

2

ANSWER WITH EVIDENCE

Use the passage

1

Which tool measured the dry sheets’ length, and what unit did the group use?

2

Write two things the group kept the same for a fair test.

3

What tool measured the soaking time, and what was the time for each towel?

3

YOUR TURN

Your own words

Choose two similar classroom objects, such as two crayons. Measure the same property for both objects, then complete the table with your plan and data.

OBJECT	PROPERTY MEASURED	TOOL AND UNIT	DATA

PART 1 • READ AND MARK

Underline each tool in the passage. Circle every measurement and its unit to show how the group planned to collect data. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	Which tool measured the dry sheets' length, and what unit did the group use?	A ruler measured the length in inches.
2	Write two things the group kept the same for a fair test.	They used the same amount of water and kept the water at the same temperature.
3	What tool measured the soaking time, and what was the time for each towel?	A stopwatch measured the time. Each towel soaked for 10 seconds.

PART 3 • YOUR TURN (SAMPLE ANSWER)

OBJECT	PROPERTY MEASURED	TOOL AND UNIT	DATA
Blue crayon	length	ruler, inches	3 inches
Red crayon	length	ruler, inches	3 1/2 inches

Accept any two similar objects measured with the same property, an appropriate tool and U.S. Customary unit, and reasonable recorded data. Length uses inches, weight uses ounces or pounds, temperature uses degrees Fahrenheit, and time uses seconds or minutes.