

Introduction to Physical Science ▪ 1.3 Review and Reinforce

Measurement

Understanding Main Ideas

Answer the following questions on a separate sheet of paper.

1. Why do scientists use a standard measurement system?
2. What are the SI units of measure for length, mass, volume, density, time, and temperature?
3. What are the common tools scientists use to measure length, mass, and liquid volumes?
4. Why is the mass of an object the same on the moon as it is on Earth, but the object's weight is different?
5. What formula do you use to determine the volume of a rectangular solid?
6. Why is an object's density expressed as a combination of two units?
7. What are two scales scientists use to measure temperature, and what is the official SI unit for temperature?

Building Vocabulary

Fill in the blank to complete each statement.

8. Modern scientists use an expanded metric system called the International System of Units, abbreviated as _____.
9. The measure of the force of gravity acting on an object is called _____.
10. The _____ system is a system of measurement based on the number 10.
11. The amount of space an object takes up is called _____.
12. The measure of how much mass is contained in a given volume is _____.
13. The curve of the top surface of water in a graduated cylinder is called the _____.
14. The measure of the amount of matter an object contains is called _____.