How Can Materials Be Identified?

Main Idea Physical and chemical properties are characteristics used to describe, identify, and classify matter.

Fill in the blanks with words from the box below.

chemical property conductivity melting point density boiling point solubility physical property

	A characteristic that can be mea is called a(n)	
2.	A(n) tendency of a material to change	is the ability or its chemical makeup. (page E43)
3.	The of a materi ratio of mass to volume. (page E	al is its mass per unit volume, or [44)
4.	The temperature at which a solid is called its	N 10 10 10 10 10 10 10 10 10 10 10 10 10
5.	Thetemperature at which it changes	of a substance is the from a liquid to a gas. (page E45
6.	The measure of how much of or another substance is called	
7.	Theenergy. (page E46)	of a material is its ability to carry

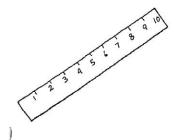
Underline the term in parentheses that correctly completes each statement.

8. Every sample of matter has (properties, substances) that can be used to describe it. (page E42)

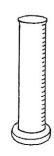
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- 9. State, size, color, and odor are examples of (chemical properties, physical properties). (page E43)
- **10.** The fact that paper burns in air is a (physical property, chemical property) of paper. (page E43)
- 11. Mass is usually measured in units of (grams or kilograms, liters or milliliters). (page E44)

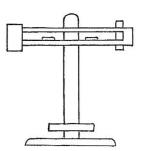
Circle the letter that best answers the question or completes the sentence.



A. centimeter ruler



B. graduated cylinder



C. balance



D. stop watch

- **12.** (page E44) Which of the instruments shown above is used to measure mass?
 - A. centimeter ruler
- C. balance
- B. graduated cylinder
- D. stop watch
- **13.** (page E46) Which of the following substances is soluble in water?
 - A. sand

C. oil

B. sugar

- D. glass
- **14.** (page E46) Which of the following is a good conductor of heat and electricity?
 - A. copper

C. rubber

B. plastic

D. an insulator

