

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**BLM 3-12**

## Chapter 3 Test

For questions 1 to 6, write the word from column B that matches the description in column A.

A	B
1. A term for how fast or slow a change happens: _____	a) temperature
2. A substance that speeds up a reaction but is not used up: _____	b) rate of change
3. The exposed part of a substance: _____	c) inhibitor
4. Something added to food to prevent spoiling: _____	d) surface area
5. They speed up chemical processes in your body: _____	e) enzymes
6. The measure of how hot or cold something is: _____	f) particle size
	g) catalyst

7. Circle the change that will happen faster, and then explain your thinking.

Change	Explanation
a) Concentrated <i>or</i> dilute detergent dissolves grease.	_____ _____
b) An apple turns brown when it is left whole <i>or</i> when it is cut into wedges.	_____ _____
c) Garbage decays and smells on a hot, summer day <i>or</i> on a cold, winter night.	_____ _____

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(continued)

**8.** Decide whether each statement is true or false. If it is false, rewrite it to make it true.

**a) True/False** Carbon monoxide is a deadly inhibitor.

**b) True/False** To increase surface area, break up the substance.

*Circle the best answer for each of questions 9 and 10.*

**9.** Copper roofing turns green more quickly in humid air than it does in dry air. What factor speeds up this change?

**a)** temperature difference

**b)** amount of surface area

**c)** higher water concentration

**d)** a catalyst

**10.** Some medications help prevent the reaction of specific chemicals in the body. What group do these medications belong to?

**a)** catalysts

**b)** enzymes

**c)** heaters

**d)** inhibitors

**11.** Explain how each factor can be used to make changes happen more slowly.

Factor	How Can You Slow Down the Change?
<b>a)</b> Surface area	
<b>b)</b> Concentration	
<b>c)</b> Temperature	
<b>d)</b> Inhibitor	

**12.** Develop an investigation to compare the rates at which two samples of alcohol evaporate. Explain how you could change the temperature, surface area, or concentration.

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