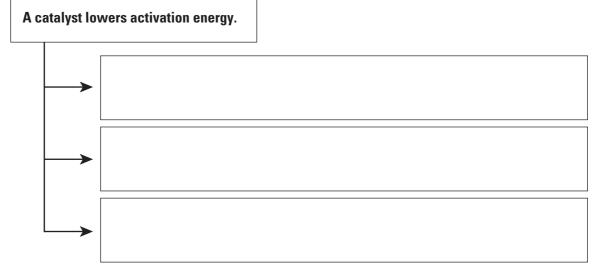
MAIN IDEA:	A catalyst lowers activation energy.

Date

- **1.** What is activation energy?
- **2.** Take notes about catalysts in the chart below. In the first two boxes, write detail notes about the main functions of catalysts. In the third box, write a detail about another characteristic.

Period



**3.** When a catalyst is present, more / less activation energy is needed to start a chemical reaction.



## **KEY CONCEPT**

Name

Enzymes are catalysts for chemical reactions in living things.

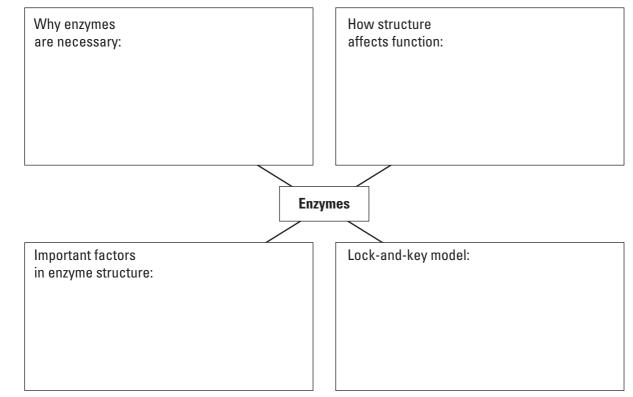
VOCABULARY			
catalyst	substrate		
enzyme			

CHAPTER 2 Chemistry of Life

## STUDY GUIDE, CONTINUED

## **MAIN IDEA:** Enzymes allow chemical reactions to occur under tightly controlled conditions.

**4.** Take notes about enzymes by filling in the Main Idea Web below.



5. How do enzymes weaken the bonds in substrates?

## **Vocabulary Check**

- **6.** The word *catalyst* comes from the Greek word meaning "to dissolve." How does this definition relate to the meaning of *catalyst*?
- 7. How are substrates like keys and enzymes like locks?