Chemical Reactions (page 49)

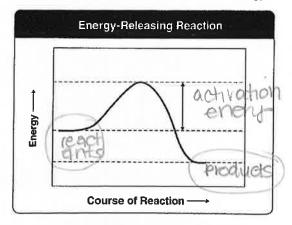
1. What is a chemical reaction? <u>Process</u> by which atoms or groups of atoms are reorganized into different substances

2. In the space provided, write a definition for each of the terms

	Definition
Reactants	starting substances of a reaction
Products	Substances formed

Energy in Reactions (page 50)

- 4. What is released or absorbed whenever chemical bonds form or are broken?
- 5. What do chemical reactions that absorb energy need to occur?
- 6. Chemists call the energy needed to get a reaction started the action energy needed to
- 7. Complete the graph of an energy-releasing reaction by indicating where the energy of the reactants, the energy of the products, and the activation energy should appear.



En	zymes (pages 51–52)
8.	What is a catalyst? <u>Substance</u> that lowers the activation
	energy needed to start a chemical reaction
9.	Proteins that act as biological catalysts are called
10.	What do enzymes do? <u>speed up the rate of</u> Chemical reactions
11.	What is part of an enzyme's name usually derived from?
	ex= amylase breaks down amylose

20	zyme Action (pages 52–53)
12.	The reactants of enzyme-catalyzed reactions are known as Substrates
	Why are the active site and the substrates in an enzyme-catalyzed
	reaction often compared to a lock and key? encumes only fit with
	certain substrates with the right
	Size & Shape
14.	The binding together of an enzyme and a substrate forms a(an)
15.	How do most cells regulate the activity of enzymes? PH temp & presence of other Substances