

## 18

## REACTION RATES AND EQUILIBRIUM

## SECTION 18.1 RATES OF REACTION (pages 541–543)

This section explains what is meant by the rate of a chemical reaction. It also uses collision theory to derive from the rate of a chemical reaction an equation for the reaction conditions.

## ► Collision Theory (pages 541–543)

1. How can rates of chemical change expressed?

Rates of chemical change are usually expressed in dimensions of moles/liters/second per unit time.

2. Look at Figure 18.1 on page 541. In a typical reaction, as time passes, the amount of reactants decreases and the amount of products increases.

3. What does collision theory say about the reaction of atoms, ions, or molecules resulting in ionic products when they collide?

Collision theory states that the molecules must have enough kinetic energy when they collide to form products.

4. Look at the figure below. One shows a collision that results in the formation of product. Label it effective collision. Label the other collision(s) ineffective collision(s).



5. Is the following sentence true or false? Particles lacking the necessary kinetic energy to react become apart unchanged when they collide. TRUE

6. Look at Figure 18.3 on page 543. Which arrangement of atoms models the least amount of energy?

- a. reactants  
b. activated complex  
c. products

# Section 18 1 Reaction Rates And Equilibrium Answers

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## Section 18 1 Reaction Rates And Equilibrium Answers:

Basic Concepts of Chemistry Leo J. Malone, Theodore Dolter, 2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book. It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features. Each section focuses on the development and assessment of one or two specific objectives. Within each section a specific objective is included, an anticipatory set to orient the reader, content discussion from established authors, and guided practice problems for relevant objectives. These features are followed by a set of independent practice problems. The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics. Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance.

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