

## Rate of Reaction

9. Each of four test tubes contains a different concentration of  $\text{H}_2\text{O}_2(\text{aq})$  at  $25^\circ\text{C}$ . A 1-gram cube of  $\text{Zn}$  is added to each test tube. In which test tube is the reaction occurring at the slowest rate?

A) 1.0 M  $\text{H}_2\text{O}_2(\text{aq})$



B) 0.1 M  $\text{H}_2\text{O}_2(\text{aq})$



C) 0.01 M  $\text{H}_2\text{O}_2(\text{aq})$



D) 0.001 M  $\text{H}_2\text{O}_2(\text{aq})$



10. As the concentration of reacting particles increases, the rate of reaction generally

- A) decreases      B) increases  
C) remains the same

11. Which change would most likely decrease the rate of a chemical reaction?

- A) decreasing a reactant's concentration  
B) decreasing a reactant's surface area  
C) cooling the reaction mixture  
D) adding a catalyst to the reaction mixture

12. Which statement best describes how a catalyst increases the rate of a reaction?

- A) The catalyst provides an alternate reaction pathway with a higher activation energy.  
B) The catalyst provides an alternate reaction pathway with a lower activation energy.  
C) The catalyst provides the same reaction pathway with a higher activation energy.  
D) The catalyst provides the same reaction pathway with a lower activation energy.

13. If the pressure on gaseous reactants is increased, the rate of reaction is increased because there is an increase in the

- A) activation energy      B) volume  
C) concentration      D) heat of reaction

14. A 1.0-gram piece of zinc reacts with 1 millimole of  $\text{HCl}(\text{aq})$ . Which of these conditions of concentration and temperature would produce the greatest rate of reaction?

- A) 1.0 M  $\text{HCl}(\text{aq})$  at  $25^\circ\text{C}$   
B) 1.0 M  $\text{HCl}(\text{aq})$  at  $45^\circ\text{C}$   
C) 2.0 M  $\text{HCl}(\text{aq})$  at  $25^\circ\text{C}$   
D) 2.0 M  $\text{HCl}(\text{aq})$  at  $45^\circ\text{C}$

15. In a biochemical reaction, an enzyme acts as a catalyst. Which the

- A) activation energy of the reaction to decrease  
B) potential energy of the reactants to decrease  
C) kinetic energy of the reactants to increase  
D) heat of reaction to increase

16. Given the reaction



An increase in the concentration of  $\text{A}$  ( $\text{A}$ ) will

- A) decrease the production of  $\text{AB}(g)$   
B) decrease the frequency of collisions between  $\text{A}(g)$  and  $\text{B}(g)$   
C) increase the production of  $\text{AB}(g)$   
D) increase the frequency of collisions between  $\text{A}(g)$  and  $\text{B}(g)$

17. A reaction is most likely to occur when reactant particles collide with

- A) proper energy, only  
B) proper orientation, only  
C) both proper energy and proper orientation  
D) neither proper energy nor proper orientation

18. Given the reaction



The reaction will most likely occur at the greatest rate if  $\text{A}$  and  $\text{B}$  represent

- A) simple molecular compounds in the solid phase  
B) ionic compounds in the solid phase  
C) solutions of simple molecular compounds  
D) solutions of ionic compounds

# Kinetics And Equilibrium Practice Answers

**SA Dillow**



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## **Table of Contents Kinetics And Equilibrium Practice Answers**

1. Understanding the eBook Kinetics And Equilibrium Practice Answers
  - The Rise of Digital Reading Kinetics And Equilibrium Practice Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Kinetics And Equilibrium Practice Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Kinetics And Equilibrium Practice Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Kinetics And Equilibrium Practice Answers
  - Personalized Recommendations
  - Kinetics And Equilibrium Practice Answers User Reviews and Ratings
  - Kinetics And Equilibrium Practice Answers and Bestseller Lists

5. Accessing Kinetics And Equilibrium Practice Answers Free and Paid eBooks
  - Kinetics And Equilibrium Practice Answers Public Domain eBooks
  - Kinetics And Equilibrium Practice Answers eBook Subscription Services
  - Kinetics And Equilibrium Practice Answers Budget-Friendly Options
6. Navigating Kinetics And Equilibrium Practice Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Kinetics And Equilibrium Practice Answers Compatibility with Devices
  - Kinetics And Equilibrium Practice Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Kinetics And Equilibrium Practice Answers
  - Highlighting and Note-Taking Kinetics And Equilibrium Practice Answers
  - Interactive Elements Kinetics And Equilibrium Practice Answers
8. Staying Engaged with Kinetics And Equilibrium Practice Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Kinetics And Equilibrium Practice Answers
9. Balancing eBooks and Physical Books Kinetics And Equilibrium Practice Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Kinetics And Equilibrium Practice Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Kinetics And Equilibrium Practice Answers
  - Setting Reading Goals Kinetics And Equilibrium Practice Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Kinetics And Equilibrium Practice Answers
  - Fact-Checking eBook Content of Kinetics And Equilibrium Practice Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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