

Unit 9 Outline- Thermodynamics, Reaction Rates, & Chemical Equilibrium Chapters 17 & 18

Essential Skills/ State Standards:

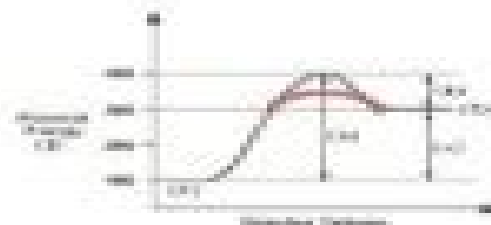
- 9-1. Describe heat, temperature, and heat flow in terms of the motion of molecules (or atoms). (C30-7a)
 9-2. Know that chemical processes & phase changes can either release energy (exothermic) or absorb energy (endothermic). (C30-7b, 7c)
 9-3. Solve problems involving heat flow and temperature changes, using known values of specific heat (e.g. $m \cdot c \cdot \Delta T$) & latent heat of phase change (e.g. $m \cdot \Delta H$). (C30-7d)
 9-4. Know the rate of reactions is affected by the concentration of reactants or the increase in concentration of products with time & depends on such factors as: concentration, temperature, and pressure. (C30-8a, 8b)
 9-5. Know the definition and role of activation energy & catalyst in a chemical reaction. (C30-8a*, 8c)
 9-6. Know how to use Le Chatelier's principle to predict the effect of changes in concentration, temperature, and pressure. (C30-9a)
 9-7. Know that equilibrium is established when the forward and reverse reaction rates are equal. (C30-9b)

Vocabulary

- | | | | |
|----------------|------------------|--|----------------------------|
| • Condensation | • Deposition | • Endothermic | • Heat of reaction |
| • Freezing | • Heat | • Enthalpy | • Le Chatelier's principle |
| • Vaporization | • Temperature | • Specific heat | • Equilibrium |
| • Melting | • Thermodynamics | • $q = m \cdot c \cdot \Delta T$ | • Activation Energy |
| • Boiling | • Exothermic | • $q = m \cdot \Delta H_{\text{vaporation}}$ | • Catalyst |
| • Sublimation | • Endothermic | • $q = m \cdot \Delta H_{\text{fusion}}$ | |

Study Guide (Use notes, worksheets, and tabs in addition to this study guide)

- According to the collision theory, what 3 things must happen in order for two molecules to react?
Must collide with each other, Must collide with enough energy, & in the correct orientation
- What is the importance of the activation energy in a chemical reaction?
Amount of energy needed for a reaction to occur
- Using the collision theory, explain if the following would increase/ decrease the rate of reaction:
 $2 \text{HCl(aq)} + \text{Mg(s)} \rightarrow \text{MgCl}_2\text{(aq)} + \text{H}_2\text{(g)}$
 - Increase temp: **Increases; molecules collide more**
 - Increase HCl: **Increases; more collisions because more reactants to collide**
 - Increase pressure: **Hard to say; wouldn't affect the reaction directly because none of them are gases. One of the products is a gas, so it might cause the gas particles to collide more with the reactants and could slow it down. Tough call... (that one won't be on the test)**
 - Remove MgCl_2 : **Increases; less products means less chance for them to interfere with reactant collisions**
 - Add H_2 : **Decreases; more products means they interfere more with reactants and the reactants would collide less**
- Identify the following terms with their correct letter from the graph:
 - Reactants- **J**
 - Products- **F**
 - Activation energy (number/ letter & amount)-
A (100-75) = 25
 - Is this reaction exothermic or endothermic?
Endothermic
- Explain how a catalyst affects the activation energy in a chemical reaction. (Also, show on the above graph what a catalyst might do). It **lowers the activation energy (see on graph). Speeds it up by lowering the activation energy.**



Reaction Rates And Equilibrium Worksheet Answers

Chapter 18

Keith James Laidler



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Books in Print Supplement ,2002 **Workbook 15** Thobeka Pete,Turret Correspondence College (Johannesburg),1988 **Theories of Chemical Reaction Rates** Keith James Laidler,1969 **A Level Chemistry Multiple Choice Questions and Answers (MCQs)** Arshad Iqbal,2020-04-10 Previously published as A Level Chemistry MCQs Multiple Choice Questions and Answers Quiz Tests with Answer Keys by Arshad Iqbal A Level Chemistry Multiple Choice Questions and Answers MCQs A Level Chemistry quizzes practice tests with answer key provides mock tests for competitive exams to solve 1745 MCQs A Level Chemistry MCQs helps with theoretical conceptual and analytical study for self assessment career tests This book can help to learn and practice A Level Chemistry quizzes as a quick study guide for placement test preparation A level Chemistry Multiple Choice Questions and Answers MCQs is a revision guide with a collection of trivia quiz questions and answers on topics Alcohols and esters atomic structure and theory benzene chemical compound carbonyl compounds carboxylic acids acyl compounds chemical bonding chemistry of life electrode potential electrons in atoms enthalpy change equilibrium group IV groups II and VII halogenoalkanes hydrocarbons introduction to organic chemistry ionic equilibria lattice energy moles and equations nitrogen and sulfur organic and nitrogen compounds periodicity polymerization rates of reaction reaction kinetics redox reactions and electrolysis states of matter transition elements to enhance teaching and learning A level Chemistry Quiz Questions and Answers also covers the syllabus of many competitive papers for admission exams of different universities from chemistry textbooks on chapters Alcohols and Esters Multiple Choice Questions 27 MCQs Atomic Structure and Theory Multiple Choice Questions 37 MCQs Benzene Chemical Compound Multiple Choice Questions 41 MCQs Carbonyl Compounds Multiple Choice Questions 29 MCQs Carboxylic Acids and Acyl Compounds Multiple Choice Questions 27 MCQs Chemical Bonding Multiple Choice Questions 213 MCQs Chemistry of Life Multiple Choice Questions 29 MCQs Electrode Potential Multiple Choice Questions 62 MCQs Electrons in Atoms Multiple Choice Questions 53 MCQs Enthalpy Change Multiple Choice Questions 45 MCQs Equilibrium Multiple Choice Questions 50 MCQs Group IV Multiple Choice Questions 53 MCQs Groups II and VII Multiple Choice Questions 180 MCQs Halogenoalkanes Multiple Choice Questions 33 MCQs Hydrocarbons Multiple Choice Questions 53 MCQs Introduction to Organic Chemistry Multiple Choice Questions 52 MCQs Ionic Equilibria Multiple Choice Questions 56 MCQs Lattice Energy Multiple Choice Questions 33 MCQs Moles and Equations Multiple Choice Questions 50 MCQs Nitrogen and Sulfur Multiple Choice Questions 89 MCQs Organic and Nitrogen Compounds Multiple Choice Questions 54 MCQs Periodicity Multiple Choice Questions 202 MCQs Polymerization Multiple Choice Questions 36 MCQs Rates of Reaction Multiple Choice Questions 39 MCQs Reaction Kinetics Multiple Choice Questions 52 MCQs Redox Reactions and Electrolysis Multiple Choice Questions 55 MCQs States of Matter Multiple Choice Questions 66 MCQs Transition Elements Multiple Choice Questions 29 MCQs The chapter Alcohols and Esters MCQs covers topics of introduction to alcohols and alcohols reactions The chapter

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