

KEY

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

Essential Skills/ State Standards:

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

Vocabulary

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

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

1. 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

2. What is the importance of the activation energy in a chemical reaction?

Amount of energy needed for a reaction to occur.

3. Using the collision theory, explain if the following would increase/ decrease the rate of reaction:



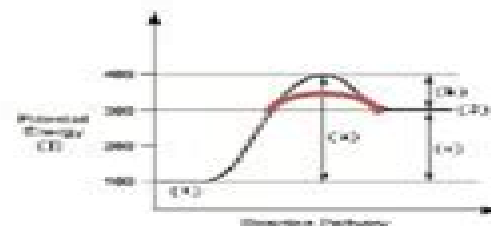
- Increase temp: *Increase, molecules collide more*
- Increase HCl: *Increase, more collisions because more reactants to collide*
- Increase pressure: *Hard to say, wouldn't affect the reactants directly because none of them are gases. One of the products is a gas, so it might cause the gas particles to collide more with the reactants and could slow it down. Tough call.. (this one won't be on the test).*
- Remove MgCl_2 : *Increase, less products means less chance for them to interfere with reactant collisions*
- Add H_2 : *Decrease, more products mean they interfere more with reactants and the reactants would collide less.*

4. Identify the following terms with their correct letter from the graphs:

- Reactants- **I**
- Products- **2**
- Activation energy (number/ letter & amount)-
A (300 Joules)
- Is this reaction exothermic or endothermic?

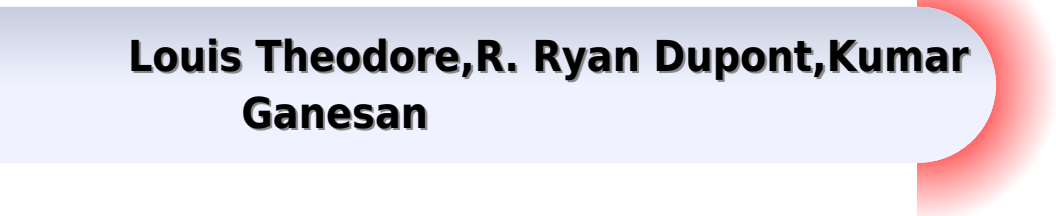
Endothermic

5. 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.



Unit 10 Reaction Rates And Equilibrium Answers

**Louis Theodore, R. Ryan Dupont, Kumar
Ganesan**



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Matthew Farber, Roger Barth, 2019-06-28 With a focus on brewing science and quality control this textbook is the ideal learning tool for working professionals or aspiring students Mastering Brewing Science is a comprehensive textbook for the brewing industry with coverage of processes raw materials packaging and everything in between including discussion of essential methods in quality control and assurance The book equips readers with a depth of understanding to deal with problems and issues that arise during production of beer from start to finish as well as statistical tools for continual quality improvement Brewery operations raw material analysis flavor stability cleaning and methods of quality control as well as the underlying science are discussed in detail The successful brewing professional must produce beer with high standards of quality consistency efficiency and safety With a focus on quality and on essential applications of biology chemistry and process control Mastering Brewing Science emphasizes development of the reader's troubleshooting and problem solving skills It is the ideal learning tool for all brewing programs or as a resource for current industry professionals Features of this book include Comprehensive understanding through application Presented in the logical order of the brewing process All key principles of science are applied to beer production facilitating a better understanding of both Check for understanding and problem solving Each chapter includes a set of problems questions and case studies that reinforce understanding of the material Richly illustrated Hundreds of unique full color illustrations ranging from micrographs of spoilage bacteria to the inner workings of a beer keg supplement clearly written text making this book easy to understand and appealing to the reader Emphasis on Quality and Safety Covers the underlying science and essential methods in quality control with discussion of data management and experimental statistics to ensure consistency in beer production Safety notes for brewing operations prepare the reader for a culture of safety at the workplace Glossary A detailed and authoritative glossary sets the standard for beer and brewing terminology

Unit Operations in Environmental Engineering Louis Theodore, R. Ryan

Dupont, Kumar Ganesan, 2017-08-29 The book presents the principles of unit operations as well as the application of these principles to real world problems The authors have written a practical introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich's 1961 classic work Unit Operations in Sanitary Engineering The book is designed to serve as a training tool for those individuals pursuing degrees that include courses on unit operations Although the literature is inundated with publications in this area emphasizing theory and theoretical derivations the goal of this book is to present the subject from a strictly pragmatic introductory point of view

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