

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 Chatelier'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:
 $2 \text{HCl(aq)} + \text{Mg(s)} \rightarrow \text{MgCl}_2\text{(aq)} + \text{H}_2\text{(g)}$

- a. Increase temp: Increase, molecules collide more
 b. Increase HCl: Increase, more collisions because more reactants to collide
 c. 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).

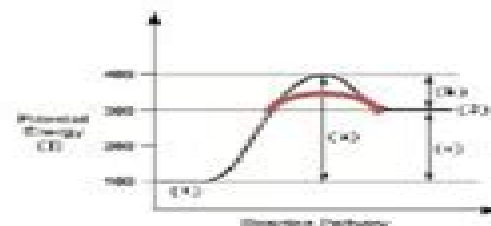
- d. Remove MgCl_2 : Increase, less products means less chance for them to interfere with reactant collisions
 e. Add H_2 : Decrease, more products mean they interfere more with reactants and the reactants would collide less.

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

- * Reactants- 1
 * 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

YCT Expert Team



Unit 10 Reaction Rates And Equilibrium Answers:

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TO THE BIGGLES BOOKS. ALL 100 BIGGLES BOOKS. VENTOS. 1993. ; Quantity. 1 available ; Item number. 196094027114 ; Publication Year. 1993 ; Format. CB&M Useful reference books and articles Maniacs Guide to the Biggles Books, The: by Rowland Smythe Published by Ventos Books, Birmingham, 1993 (glueback). - Lists the Biggles books in reading ... Biggles, No Friend of Reconciliation Dec 6, 2017 — The maniacs guide to the Biggles books : the readers guide to all 100 Biggles books / by Rowland Smythe; Birmingham: Ventos 1993. [4] The ... Paraphrase on Dizzy Gillespie's "Manteca" : for two pianos, ... Paraphrase on Dizzy Gillespie's "Manteca" : for two pianos, op. 129. Authors: Nikolai Kapustin, Masahiro Kawakami (Editor), Dizzy Gillespie. Paraphrase on Dizzy Gillespie Manteca for two pianos, op. ... Paraphrase on Dizzy Gillespie Manteca for two pianos, op.129 - Kapustin, Nikolai - listen online, download, sheet music. PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 ... MUST KAPUSTIN N. - PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 - TWO PIANOS Classical sheets Piano. German edition. 4.4 4.4 out of 5 stars 2 reviews. MUST ... MUST KAPUSTIN N. - PARAPHRASE ON DIZZY ... MUST KAPUSTIN N. - PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 - TWO PIANOS Classical sheets Piano - ISBN 10: 4904231562 - ISBN 13: 9784904231562 - MUST. PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 ... MUST KAPUSTIN N. - PARAPHRASE ON DIZZY GILLESPIE'S MANTECA OP.129 - TWO PIANOS Classical sheets Piano. German edition. 4.4 4.4 out of 5 stars 2 Reviews. MUST ... Paraphrase On Dizzy Gillespie's Manteca Sheet Music - £37.95 - Nikolaj Girshevich Kapustin - Paraphrase On Dizzy Gillespie's Manteca. ... Piano, Keyboard & Organ - Piano Solo. Publisher: MusT Music ... Classical and Jazz Influences in the Music of Nikolai Kapustin by Y Tyulkova · 2015 · Cited by 8 — The topic of this research is the contemporary Russian composer and pianist Nikolai. Kapustin. This paper will focus on the influences from both Classical and ... Options as a Strategic Investment by McMillan, Lawrence G. Lawrence G. McMillan is the author of Options As a Strategic Investment, the best-selling work on stock and index options strategies, which has sold over ... Options as a Strategic Investment: Fifth Edition This is the most complete book. It addresses the main strategies, in a very didactic way, teaches how to set them up, manage them and evaluate which strategies ... Options as a Strategic Investment: Fifth Edition This updated and revised Fifth Edition of the bestselling Options as a Strategic Investment gives you the latest market-tested tools for improving the earnings ... Options As A Strategic Investment - Best Option Trading Book This updated and revised fifth edition of the bestselling Options as a Strategic Investment gives you the latest market-tested tools for improving the earnings ... Options as a Strategic Investment: Fifth Edition (Hardcover) This updated and revised Fifth Edition of the bestselling Options as a Strategic Investment gives you the latest market-tested tools for improving the earnings ... Options as a Strategic Investment by Lawrence G. McMillan "Options as a Strategic Investment" is nothing short of a trading bible for anyone interested in options. The level of detail in this book is unparalleled, ... Study Guide for Options as a Strategic Investment 5th ... This Study Guide for the Fifth Edition of Options as a Strategic Investment will help you maximize your understanding of options, thereby increasing your ... Options As A Strategic Investment book by Lawrence G.

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