STAAR CHEMISTRY REFERENCE MATERIALS



ATOMIC STRUCTURE

Speed of light = (frequency)(wavelength)

 $c = f\lambda$

Energy = (Planck's constant)(frequency)

 $E_{photon} = hf$

Energy = (Planck's constant)(speed of light)
(wavelength)

 $E_{photon} = \frac{hc}{\lambda}$

BEHAVIOR OF GASES

Total pressure of a gas = (sum of the partial pressures)

 $P_{\mathrm{T}} = P_{1} + P_{2} + P_{3} + \dots$

(Pressure)(volume) = (moles)(ideal gas constant)(temperature)

PV = nRT

(Initial pressure)(initial volume)
(Initial moles)(initial temperature) = (final pressure)(final volume)

 $\frac{P_1V_1}{n_1T_1} = \frac{P_2V_2}{n_2T_2}$

(Initial pressure)(initial volume) = (final pressure)(final volume)

 $P_1V_1 = P_2V_2$

(Initial volume) = (final volume)
(Initial temperature)

 $\frac{V_1}{T_1} = \frac{V_2}{T_2}$

(Initial volume) = (final volume) (final moles)

 $\frac{V_1}{n_1} = \frac{V_2}{n_2}$

SOLUTIONS

Molarity = moles of solute liter of solution $M = \frac{\text{mod}}{1}$

Ionization constant of water = $\binom{hydrogen ion}{concentration}$ $\binom{hydroxide ion}{concentration}$

 $K_{w} = [H^{+}][OH^{-}]$

Volume of (molarity of solution 1) (molarity of solution 2) (molarity of solution 2)

 $V_1 M_1 = V_2 M_2$

pH = -logarithm (hydrogen ion concentration)

 $pH = -log[H^+]$

THERMOCHEMISTRY

Heat gained or lost = (mass) (specific) (change in temperature)

 $Q = mc_o \Delta T$

Enthalpy of = (enthalpy of products) - (enthalpy of reactants)

 $\Delta H = \Delta H_I^0$ (products) - ΔH_I^0 (reactants)

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Table of Contents Science Staar Category 1 Cheat Sheet

- 1. Understanding the eBook Science Staar Category 1 Cheat Sheet
 - The Rise of Digital Reading Science Staar Category 1 Cheat Sheet
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Science Staar Category 1 Cheat Sheet
 - 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 Science Staar Category 1 Cheat Sheet
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Science Staar Category 1 Cheat Sheet
 - Personalized Recommendations
 - $\circ\,$ Science Staar Category 1 Cheat Sheet User Reviews and Ratings
 - Science Staar Category 1 Cheat Sheet and Bestseller Lists
- 5. Accessing Science Staar Category 1 Cheat Sheet Free and Paid eBooks
 - Science Staar Category 1 Cheat Sheet Public Domain eBooks
 - Science Staar Category 1 Cheat Sheet eBook Subscription Services
 - Science Staar Category 1 Cheat Sheet Budget-Friendly Options

- 6. Navigating Science Staar Category 1 Cheat Sheet eBook Formats
 - o ePub, PDF, MOBI, and More
 - Science Staar Category 1 Cheat Sheet Compatibility with Devices
 - Science Staar Category 1 Cheat Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Science Staar Category 1 Cheat Sheet
 - Highlighting and Note-Taking Science Staar Category 1 Cheat Sheet
 - Interactive Elements Science Staar Category 1 Cheat Sheet
- 8. Staying Engaged with Science Staar Category 1 Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Staar Category 1 Cheat Sheet
- 9. Balancing eBooks and Physical Books Science Staar Category 1 Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Staar Category 1 Cheat Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Science Staar Category 1 Cheat Sheet
 - Setting Reading Goals Science Staar Category 1 Cheat Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Science Staar Category 1 Cheat Sheet
 - Fact-Checking eBook Content of Science Staar Category 1 Cheat Sheet
 - 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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