

Chemistry 338 2nd Semester Final Exam Review Sheet

District Assessment

| Element | Symbol | Atomic # | Protons | Neutrons | Electrons | Mass # | Charge |
|----------|-----------------------------------|----------|---------|----------|-----------|--------|--------|
| Tungsten | ¹⁸⁴ W ₇₄ | 74 | 74 | 110 | 72 | 184 | +2 |

1. Name the compound
 - a. Fe₂O₃ – *iron (III) oxide*
 - b. Cl₂O₈ – *dichlorine octoxide*

2. Write the formula
 - a. Trisulfur Dinitride – *S₃N₂*
 - b. Zinc Hydroxide – *Zn(OH)₂*
 - c. Tin (IV) oxide – *SnO₂*

3. The pressure of a gas is 843 mm Hg at 24°C. What will the pressure be at standard temperature? *Volume is constant.*

$$\frac{P_1}{T_1} = \frac{P_2}{T_2} \quad \frac{843 \text{ mmHg}}{297\text{K}} = \frac{P_2}{273\text{K}} \quad P_2 = 775 \text{ mm Hg}$$

4. The volume of a gas is 81.7 mL when the pressure is 119 kPa and the temperature is 73°C. What is the volume at STP?

$$\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2} \quad \frac{(119\text{kPa})(81.7\text{mL})}{346\text{K}} = \frac{(101.3\text{kPa})(V_2)}{273\text{K}} \quad V_2 = 75.7 \text{ mL}$$

5. Between Be and Ba, which has a larger ionization energy? Larger atomic radius?

Larger ionization energy – Be
Larger atomic radius – Ba

6. Balance the equation & classify the type of reaction:

$$2\text{Al} + 3 \text{CuSO}_4 \rightarrow 1\text{Al}_2(\text{SO}_4)_3 + 3 \text{Cu} \quad \text{single replacement}$$

7. Predict the products & classify the type of reaction:

$$\text{H}_3\text{PO}_4 + 3 \text{NaOH} \rightarrow 3 \text{H}_2\text{O} + \text{Na}_3\text{PO}_4 \quad \text{double replacement}$$

8. Calculate the Molar Mass: (NH₄)₂CO₃
96 g/mole

9. Convert 2.75 moles of N₂O₅ to molecules

$$\frac{2.75 \text{ moles}}{1} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1 \text{ mole}} = 1.66 \times 10^{24} \text{ molecules N}_2\text{O}_5$$

Solutions

Chemistry Spring Semester Final Exam Review Sheet

National Learning Corporation

A red circular graphic with a gradient, appearing as a partial circle on the right side of the page, overlapping the grey bar.

Chemistry Spring Semester Final Exam Review Sheet:

Survival Handbook for the New Chemistry Instructor Diane M. Bunce, Cinzia M. Muzzi, 2004 This book provides an overview of the issues facing new chemistry faculty in preparation for teaching Serving as a reference to answer specific questions new chemistry faculty encounter this book is comparable to sitting down with a colleague in the department and talking through some ideas or gaining some pointers on how to avoid common pitfalls It is the one single place new chemistry faculty can go to find practical information on how to teach and how to prepare for teaching their first course Chapters are written both by established experts in the field and by new professors within their first couple of years of teaching

Cornell University Courses of Study Cornell University, 1992 Congressional Record United States. Congress, 1971 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 **Portable Technologies** Robert Tinker, Joseph Krajcik, 2012-12-06 Education has traditionally studied the world by bringing it into the classroom This can result in situated learning that appears to students to have no relevance outside the classroom Students acquire inert decontextualized knowledge that they cannot apply to real problems The obvious solution to this shortcoming is to reverse the situation and bring the classroom to the phenomena to learn in a rich real world context The problem with the real world is that it is complex and filled with interactions that are hard to sort out The editors and authors believe that the right tools might help students with this sorting process and result in learning in rich contexts This book is an account of a series of experiments designed to explore the validity of this insight The Journal of Materials Education ,1998 *Getting Into Medical School* Donald J. Solomon, 1979 Virginia Journal of Science Ruskin Skidmore Freer, 2006 The Virginia Journal of Science ,2005 *School* ,1929-09 **The New Statesman and Nation** ,1944 **Printers' Ink** ,1957 *Final Exam Review Sheet* ,2002 *Chemistry and Student Study Guide and Study Guide, Fifth Edition and Smarthinking and Letter* Zumdahl, 2002-01-01 Study Guide for Chemical Principles [by] Steven S. Zumdahl Steven S. Zumdahl, Paul B. Kelter, 1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples Final Exam Study Guide ,2003 **Fast Track: Chemistry** The Princeton Review, 2020-12-08 GET UP TO SPEED WITH FAST TRACK CHEMISTRY Covering the most important material taught in high school chem class this essential review book breaks need to know content into accessible easily understood lessons Inside this book you ll find Clear concise summaries of the most important concepts terms and functions in chemistry Diagrams charts and graphs for quick visual reference Easy to follow content organization and illustrations With its friendly straightforward approach and a clean modern design crafted to appeal to visual learners this guidebook is perfect for

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Chemistry Spring Semester Final Exam Review Sheet Book Review: Unveiling the Power of Words

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Table of Contents Chemistry Spring Semester Final Exam Review Sheet

1. Understanding the eBook Chemistry Spring Semester Final Exam Review Sheet
 - The Rise of Digital Reading Chemistry Spring Semester Final Exam Review Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Spring Semester Final Exam Review 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 Chemistry Spring Semester Final Exam Review Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Spring Semester Final Exam Review Sheet
 - Personalized Recommendations
 - Chemistry Spring Semester Final Exam Review Sheet User Reviews and Ratings
 - Chemistry Spring Semester Final Exam Review Sheet and Bestseller Lists

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