

Chemistry 338 2nd Semester Final Exam Review Sheet

Unit 1 - Matter & Measurement – Chapters 1 & 2

1. A student experimentally determines the density of an object to be 4.2 g/mL. If the accepted value is 5.0 g/mL, calculate the % error.

$$\% \text{ error} = \frac{\text{experimental} - \text{accepted}}{\text{accepted}} \times 100$$

$$\% \text{ error} = \frac{4.2 - 5.0}{5.0} \times 100 = -16\% \text{ error}$$

Unit 2 – Periodic Table – Chapter 5

2.

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

3. Using the following atomic radius values, predict the atomic radius of potassium (K):
 Li – 145 pm, Na – 180 pm, K - ?, Rb – 235 pm
K – 220 pm

Unit 3 – Reactions/Compounds – Chapters 7 & 8

4. Classify the compound as ionic or covalent. Name the compound
- Fe₂O₃ - iron (III) oxide (ionic - roman numerals for transition metals, change ending to -ide)
 - Cl₂O₈ - dichlorine octaoxide (covalent - use prefixes, change ending to -ide)
5. Classify the compound as ionic or covalent. Write the formula
- Trisulfur Dinitride – S₃N₂ (covalent)
 - Zinc Hydroxide – Zn(OH)₂ (ionic – look up ion charges and criss-cross) Zn⁺² OH⁻¹
 - Chromium (III) nitrate – Cr(NO₃)₃ (ionic – criss-cross) Cr⁺³ NO₃⁻²
6. Write the equation, balance it, and classify the type of reaction:
 Iron (II) sulfate reacts with sodium hydroxide to yield iron(II) hydroxide and sodium sulfate
- $$1 \text{ FeSO}_4 + 2 \text{ NaOH} \rightarrow 1 \text{ Fe(OH)}_2 + 1 \text{ Na}_2\text{SO}_4$$
- double displacement (two ionic compounds reacting)
7. Balance the equation and classify the type of reaction:
- $$1 \text{ Cu} + 2 \text{ AgNO}_3 \rightarrow 1 \text{ Cu(NO}_3)_2 + 2 \text{ Ag}$$
- Single displacement (element and a compound reacting)

Unit 4 – Moles – Chapter 3

8. Calculate the molar mass of Fe₂(SO₄)₃.

$$\begin{aligned} \text{Fe (2)(55.9 g/mol)} &= 111.8 \text{ g/mol} \\ \text{S (3)(32.1 g/mol)} &= 96.3 \text{ g/mol} \\ + \text{O (12)(16.0 g/mol)} &= +192 \text{ g/mol} \\ &= 400.1 \text{ g/mol} \end{aligned}$$

Nd Semester Final Chemistry High School

CL Gary



Nd Semester Final Chemistry High School:

Bulletin United States. Office of Education,1963 Competence Training for Pharmacy Jeffrey Atkinson,2018-07-05 This book is a printed edition of the Special Issue Competence Training for Pharmacy that was published in Pharmacy

Resources in Education ,1998 **Bulletin** ,1932 **The Nobel Prizes 2019** Karl Grandin,2022-03-07 The Nobel Prizes is the official yearbook of the Nobel Foundation This edition provides extensive information about the 2019 laureates their Nobel Prize lectures and their autobiographies as well as presentation speeches and background about the Nobel festivities Published on behalf of the Nobel Foundation Life Story of Harley Murray Harmon'S Trials and Tribulations Harley Murray Harmon,2014-07-18 This book is an autobiography of Harley Murray Harmon written sequentially throughout his life starting when he was born and ending where he is today 82 years old single and living alone The book is a complete rendition of the life of magic and tragic moments both encountered and performed by the author and performer Harley Murray Harmon It covers his story before and after he began using the computer loaded with Microsofts Windows 8 He just now thought of a trick to be able to use the ancient Word Perfect 9 that he bought before the internet arrived After all genius is being able to make things happen when what one wants to work just doesnt want to work I am now set to begin writing my book I hope to high Heaven that everything will function just like I want it to So lets begin *Correspondence Courses Offered by Colleges and Universities Through the United States Armed Forces Institute* United States Armed Forces Institute,1957 **Journal of Chemical Education** ,1929 Implementation and Critical Assessment of the Flipped Classroom Experience Scheg, Abigail G.,2015-01-31 In the past decade traditional classroom teaching models have been transformed in order to better promote active learning and learner engagement Implementation and Critical Assessment of the Flipped Classroom Experience seeks to capture the momentum of non traditional teaching methods and provide a necessary resource for individuals who are interested in taking advantage of this pedagogical endeavor Using narrative explanations and foundation materials provided by experienced instructors this premier reference work presents the benefits and challenges of flipped methodology implementation in today s classroom to educators and educational administrators across all disciplines and levels **Listening to Our Students and Transcending K-12 to Save Our Nation** Alec Ostrom,Brian Hack,Don Prentice,2020-01-06 This journey will engage you in dealing with some hard truths and it will take you down a new pathway and new ways of thinking about K 12 education We now live in a nation that is struggling with deep social economic and political conflicts We are all doing our best to resolve these conflicts and to solve the critical challenges that we all face in the Digital Age but our children and young adults are having a very difficult time in dealing with the realities of their young lives We wrote this book because we want to engage all of our readers in each local community in frank honest down to earth practical conversations about our K 12 schools as the foundation for our constitutional democracy Without well educated citizens our government our economy and our society will not survive And this is true regardless of

the political beliefs of our readers across the political spectrum **Blended Learning: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2016-08-18 Traditional classroom learning environments are quickly becoming a thing of the past as research continues to support the integration of learning outside of a structured school environment Blended learning in particular offers the best of both worlds combining classroom learning with mobile and web based learning environments Blended Learning Concepts Methodologies Tools and Applications explores emerging trends case studies and digital tools for hybrid learning in modern educational settings Focusing on the latest technological innovations as well as effective pedagogical practice this critical multi volume set is a comprehensive resource for instructional designers educators administrators and graduate level students in the field of education *Correspondence Courses Offered by Colleges and Universities Through the United States Armed Forces Institute* ,1957 *Research in Education* ,1974 **Undergraduate Announcement** University of Michigan--Dearborn,1983 **Announcement** University of Michigan--Dearborn,1981 **Chemical and Engineering News** ,1959 *DOD Pam* United States. Office of Armed Forces Information and Education,1957 *Official Gazette* Philippines,1999 **Department of the Army Pamphlet** ,1951 *Annual Report of Illinois State Board of Health* Illinois State Board of Health,1894

The book delves into Nd Semester Final Chemistry High School. Nd Semester Final Chemistry High School is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Nd Semester Final Chemistry High School, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Nd Semester Final Chemistry High School
- Chapter 2: Essential Elements of Nd Semester Final Chemistry High School
- Chapter 3: Nd Semester Final Chemistry High School in Everyday Life
- Chapter 4: Nd Semester Final Chemistry High School in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Nd Semester Final Chemistry High School. This chapter will explore what Nd Semester Final Chemistry High School is, why Nd Semester Final Chemistry High School is vital, and how to effectively learn about Nd Semester Final Chemistry High School.
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6. In chapter 5, this book will draw a conclusion about Nd Semester Final Chemistry High School. The final chapter will summarize the key points that have been discussed throughout the book.

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<http://www.a-walhalla.hu/results/Resources/default.aspx/physics%20p2%20chemistry%20gr%2011%202014.pdf>

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