

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

- Name the compound
 a. Fe_2O_3 – **iron (III) oxide**
 b. Cl_2O_8 – **dichlorine octoxide**
- Write the formula
 a. Trisulfur Dinitride – **S_3N_2**
 b. Zinc Hydroxide – **$\text{Zn}(\text{OH})_2$**
 c. Tin (IV) oxide – **SnO_2**
- The pressure of a gas is 843 mm Hg at 24°C. What will the pressure be at standard temperature? Volume is constant.

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

$$\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2} \quad \frac{(119\text{kPa})(81.7\text{mL})}{346\text{K}} = \frac{(101.3\text{kPa})(V_2)}{273\text{K}} \quad V_2 = 75.7 \text{ mL}$$
- Between Be and Ba, which has a larger ionization energy? Larger atomic radius?
 Larger ionization energy – **Be**
 Larger atomic radius – **Ba**
- Balance the equation & classify the type of reaction:

$$2\text{Al} + 3\text{CuSO}_4 \rightarrow 1\text{Al}_2(\text{SO}_4)_3 + 3\text{Cu} \quad \text{single replacement}$$
- Predict the products & classify the type of reaction:

$$\text{H}_3\text{PO}_4 + 3\text{NaOH} \rightarrow 3\text{H}_2\text{O} + \text{Na}_3\text{PO}_4 \quad \text{double replacement}$$
- Calculate the Molar Mass: $(\text{NH}_4)_2\text{CO}_3$
96 g/mole
- Convert 2.75 moles of N_2O_5 to molecules

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

Solutions

Chemistry Spring Semester Final Exam Review Sheet

Robert Tinker, Joseph Krajcik



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

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 **Congressional Record**

United States. Congress, 1971 *Cornell University Courses of Study* Cornell University, 1992 *The Journal of Materials Education*, 1998 **Getting Into Medical School** Donald J. Solomon, 1979 *The Virginia Journal of Science*, 2005

West Point United States Military Academy, 1984 *Virginia Journal of Science* Ruskin Skidmore Freer, 2006

Indianapolis Monthly, 2002-11 Indianapolis Monthly is the Circle City's essential chronicle and guide an indispensable authority on what's new and what's news Through coverage of politics crime dining style business sports and arts and entertainment each issue offers compelling narrative stories and lively urbane coverage of Indy's cultural landscape

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