

Chemistry 2nd Semester Final Review **KEY**

This is meant as a guide. It does NOT contain every single thing you need to know for the final exam. Review notes, benchmark review sheets, homeworks, chapter study guides, etc.

Bring your book to school by Monday for turn in (seniors should bring book to bookstore by themselves ASAP)

Gas Laws (Ch. 13):

Subtopics: atmospheric pressure, Dalton's law of partial pressures, combined gas law, Ideal gas law, gas stoichiometry (22.4 L/mol for a gas at STP)

Practice questions:

1. If a gas occupies 3.8 L at a pressure of 2.71 atm, what would the pressure be if the volume changes to 1.47 L? (Temp. and amt. of gas constant)
 $V_1 = 3.8 \text{ L}; P_1 = 2.71 \text{ atm}$
 $V_2 = 1.47 \text{ L}; P_2 = ? \text{ Atm}$
Since all units are standard (L, atm), we do not need to convert the units before proceeding.
 $(P_1 V_1)/T_1 = (P_2 V_2)/T_2$
T goes away (not mentioned in problem)
 $P_1 V_1 = P_2 V_2$
Isolate for P_2 : $P_2 = (P_1 V_1)/V_2$
 $P_2 = (2.71 \text{ atm} \times 3.8 \text{ L})/(1.47 \text{ L}) = 7.0 \text{ atm}$ (L cancelled and it's 2 sig figs)
2. A gas has a volume of 1.49 L at a temperature of 34.75 degrees Celsius. What would the volume be at 78.41 degrees Celsius? (pressure & amt. of gas constant)
 $V_1 = 1.49 \text{ L}, T_1 = 34.75 \text{ degrees Celsius}$
 $V_2 = ? \text{ L}, T_2 = 78.41 \text{ degrees Celsius}$
We need to convert from Celsius to Kelvins before proceeding.
 $T_1 = 34.75 + 273 = 307.75 \text{ K}$
 $T_2 = 78.41 + 273 = 351.41 \text{ K}$
 $(P_1 V_1)/T_1 = (P_2 V_2)/T_2$
Get rid of P
 $V_1/T_1 = V_2/T_2$
Isolate V_2 : $V_2 = (V_1/T_1)T_2$
 $V_2 = (1.49 \text{ L}/307.75 \text{ K})(351.41 \text{ K}) = 1.70 \text{ L}$
3. What volume is occupied by 8.47 g of hydrogen gas at 84.7 degrees Celsius and 1.04 atm?
The combined gas law won't work here. You only have one condition and nothing changes.
 $PV = nRT$ will work. (n = moles and R = 0.08206 L atm/K mol)
 $P = 1.04 \text{ atm}, V = ? \text{ L}, n = \text{OOPS we need to convert from grams to moles!}, T = 84.7 \text{ degrees Celsius} + 273 = 357.7 \text{ K}$
 n : Hydrogen gas is diatomic!
 $8.47 \text{ g H}_2 \times (1 \text{ mol H}_2 / 2.02 \text{ g H}_2) = 4.193069307 \text{ mol H}_2$
Isolate V : $V = (nRT)/P = (4.193069307 \text{ mol H}_2 \times 0.08206 \text{ L atm/K mol} \times 357.7 \text{ K}) / 1.04 \text{ atm} = 118 \text{ L}$
4. What volume is occupied by 56.75 g of oxygen gas at STP?

Chemistry 2nd Semester Study Guide Answer Key

N Colangelo



Chemistry 2nd Semester Study Guide Answer Key:

Concepts of Medicine & Biology Parent Lesson Plan ,2013-08-01 Concepts of Medicine and Biology Course

Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Medicine From surgery to vaccines man has made great strides in the field of medicine Quality of life has improved dramatically in the last few decades alone and the future is bright But students must not forget that God provided humans with minds and resources to bring about these advances A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury In Exploring the History of Medicine author John Hudson Tiner reveals the spectacular discoveries that started with men and women who used their abilities to better mankind and give glory to God The fascinating history of medicine comes alive in this book providing students with a healthy dose of facts mini biographies and vintage illustrations Semester 2 Biology The field of biology focuses on living things from the smallest microscopic protozoa to the largest mammal In this book you will read and explore the life of plants insects spiders and other arachnids life in water reptiles birds and mammals highlighting God s amazing creation You will learn about biological classification how seeds spread around the world long term storage of energy how biologists learned how the stomach digested food the plant that gave George de Mestral the idea of Velcro and so much more For most of history biologists used the visible appearance of plants or animals to classify them They grouped plants or animals with similar looking features into families Starting in the 1990 s biologists have extracted DNA and RNA from cells as a guide to how plants or animals should be grouped Like visual structures these reveal the underlying design of creation Exploring the World of Biology is a fascinating look at life from the smallest proteins and spores to the complex life systems of humans and animals

Student Study Guide Fundamentals of Chemistry by David E. Goldberg Margaret G. Kimble,1994 **El-Hi Textbooks in Print** ,1981 **General Chemistry** B. Richard Siebring,Mary Ellen Schaff,1980

Instructional Media Resources ,1985 **Vocational Division Bulletin** United States. Division of Vocational and Technical Education,1939 **World of Chemistry** Melvin D. Joesten,2004 *Curriculum Materials for Trade and Industrial Education* ,1961 *Vocational Division Bulletin* ,1962 *The Macmillan Guide to Correspondence Study* Modoc Press,1996 *Vocational Education Bulletin* United States. Division of Vocational Education,1961 *Curriculum Materials for Trade and Industrial Education* , 1963 ,1964 **Organic and Biochemistry for Today** Spencer L. Seager,Michael R. Slabaugh,1997 This alternate paperback edition is designed for professors who want to cover only the last 15 chapters of the main text Chemistry for Today General Organic and Biochemistry Third Edition All the ancillaries available to accompany the main text also accompany this Briefer Edition **Subject Guide to Books in Print** ,1997 **Science Books & Films** ,1989 **National Guide to Educational Credit for Training Programs 2004-2005** Jo Ann Robinson,Troy Polite,Nancy

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The Publishers' Trade List Annual ,1973 **AAAS Science Book List, 1978-1986** Kathryn Wolff,Susan M. O'Connell,Valerie J. Montenegro,1986 A selected and annotated list of science and mathematics books which supplements the AAAS science book list 3rd ed 1970 and the AAAS science book list supplement 1978 **Industrial Arts & Vocational Education** ,1960 **Junior College Journal** Walter Crosby Eells,1969 Includes Junior college directory formerly Directory of the junior college 1931 1945

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