

Name: _____

Honors Chemistry Unit 1 Study Guide: Chapters 4, 11, & 19

1. What particles are found in the nucleus of an atom? What is the charge of the nucleus? What is the charge of the atom? It would be helpful to draw and label this.

In the nucleus, there are protons and neutrons, the charge is positive, a charge of an atom is neutral

2. Draw and label the parts found within a box on the periodic table.

3. How is an atom's atomic number related to its number of protons? Number of electrons?

The atom's number is the same as it's number of protons and electrons

4. What is the charge of the nucleus for element atomic number 56?

It is positive charge

5. Which particles account for most of an atom's mass?

The protons and neutrons

6. How is mass number related to the number of protons and neutrons an atom has?

The mass number is the sum of protons and neutrons

7. When you do not know the units of mass, what can you use? Write the full name and abbreviation.

You can use amu or atomic mass units

8. Distinguish between Democritus' idea and Dalton's atomic theory.

9. What parts of Dalton's atomic theory are now known to be false?

10. Draw and label the five atomic models discussed in class.

Chemistry Honors Semester 1 Study Guide

LL Leslie



Chemistry Honors Semester 1 Study Guide:

Catalogue Swarthmore College,1929 **Concepts of Mathematics & Physics Parent Lesson Plan** ,2013-08-01

Concepts of Mathematics and Physics 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 Mathematics Numbers surround us Just try to make it through a day without using any It s impossible telephone numbers calendars volume settings shoe sizes speed limits weights street numbers microwave timers TV channels and the list goes on and on The many advancements and branches of mathematics were developed through the centuries as people encountered problems and relied upon math to solve them It s amazing how ten simple digits can be used in an endless number of ways to benefit man The development of these ten digits and their many uses is the fascinating story in Exploring the World of Mathematics Semester 2 Physics Physics is a branch of science that many people consider to be too complicated to understand John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend Did you know that a feather and a lump of lead will fall at the same rate in a vacuum Learn about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space Learn about the effects of inertia firsthand during fun and informative experiments Exploring the World of Physics is a great tool for students who want to have a deeper understanding of the important and interesting ways that physics affects our lives *School of the Liberal Arts University of Pittsburgh,1914*

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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-Assisted Teaching Judith E. Miller, James E. Groccia, Marilyn Sue Miller, Marilyn S. Miller, 2001-01-15 This book provides a range of models for undergraduate student assisted teaching partnerships to help teachers and administrators make learning more student centered effective and productive The 31 models describes a range of approaches and applications in a variety of settings and disciplines The chapters are 1 Establishing a Common Ground a Conjoint Training Model for Instructors and Peer Educators Eve M Adams Susan C Brown and Terry L Cook 2 Lessons from Peers The Design Exchange Mark J Chidister Frank H Bell Jr And Kurt M Earnest 3 Peer Teaching in the Experimental College Robyn Gittleman and Howard Woolf 4 Peer Facilitators as Lead Freshman Seminar Instructors Jean M Henscheid 5 The Teaching Teams Program a Just in Time Model for Peer Assistance Harold P Larson Reed Mencke Stacy J Tollefson Elizabeth Harrison and Elena Merman 6 The Teaching Teams Program Transforming the Role of the Graduate Teaching Assistant David A Wood Jr Jennifer L Hart Stacy J Tollefson Dawn E DeToro and Julie Libarkin 7 The Teaching Teams Program Empowering Undergraduates in a Student Centered Research University Lacey A Stover Kirstin A Story Amanda M Skousen Cynthia E Jacks Heather Logan and Benjamin T Bush 8 Peer Assisted Cooperative Learning An Experiment in Educational Quality and Productivity Judith E Miller David DiBiasio John Minasian and James S Catterall 9 Students Managing to Learn Teachers Learning To Manage Martin H Murray 10 Undergraduates Teaching in a Collaborative Learning Paradigm Samuel B Thompson Sarah B Westfall and Christine Reimers 11 Peers at Work Tutors at Spelman College Anne B Warner and Christine K Farris 12 Students Mentoring Students in Portfolio Development W Alan Wright and Bruce Barton 13 The Experimental Study Group An Alternative First Year Program

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