

Name: _____

Date: _____

Chapter 6 Study Guide: Periodicity

1. Describe the historical development of the periodic table (Newland, Meyer, Mendeleev, Mosely) Describe the contributions made by each of the scientist.

Newland – First to order the elements in a periodic table –developed the law of octaves

Meyers – Ordered elements by atomic mass but is given little credit for the current periodic table

Mendeleev – ordered elements by atomic mass and is given the most credit for the current periodic table because he left holes in his table for undiscovered elements and described their properties

Mosely – ordered elements by atomic number (modern periodic table)

2. Fill in the blanks below:

The elements in the periodic table are arranged in order of increasing Atomic

Number. The vertical columns are called Groups or

Families. The horizontal rows are called Periods. The

elements within the same Family have the same chemical properties due to the number of their Valence Electrons. Metals are located on the

Left side of the periodic table. The nonmetals are located on the

Right side of the periodic table. The metalloids are located on

the Stair step between the metals and nonmetals.

3. Describe the general properties of the following groups of elements on the periodic table:

- a. Alkali Metals

1 valence electrons, metals, highly reactive, s-block

- b. Alkaline Earth metals

2 valence electrons, metals, reactive, s-block

- c. Halogens

7 valence electrons, high reactive, nonmetals, p-block

- d. Noble Gases

8 noble electrons, nonreactive, nonmetals, all gases, p-block

- e. Transition Metals

Variable valence electrons, metals, malleable, ductile, metals, conductive

- f. Inner Transition Metals

Variable valence electrons, metals, f-block

Chemistry Chapter 6 Study Guide For Content Mastery Answers

M Carnoy



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Excel Science Study Guide, Years 9-10 Will Marchment, 2004 The book contains coverage of five major topic areas in the NSW School Certificate test Energy Force and Motion Atoms Elements and Compounds Structure and Function of Living Things Earth and Space Ecosystems Resources and Technology a chapter on Investigations and Problem Solving in Science to help with practical skills revision questions and chapter tests to help you remember important information a glossary and summary in each section of the book diagrams and illustrations to help your understanding a section to help you prepare for the School Certificate test a sample School Certificate test paper with answers answers to all questions **Chemistry**

McGraw-Hill Staff, 2001-07 For All Practical Purposes Consortium for Mathematics and Its Applications (U.S.), 2003 The sixth edition of the acclaimed classroom favorite offer a number of new features to help instructors strengthen the mathematical literacy of their students **Organic Chemistry** Francis A. Carey, 2000 A Market Leading Traditional Approach to Organic Chemistry Throughout all seven editions Organic Chemistry has been designed to meet the needs of the mainstream two semester undergraduate organic chemistry course This best selling text gives students a solid understanding of organic chemistry by stressing how fundamental reaction mechanisms function and reactions occur With the addition of handwritten solutions new cutting edge molecular illustrations updated spectroscopy coverage seamless integration of molecular modeling exercises and state of the art multimedia tools the 7th edition of Organic Chemistry clearly offers the most up to date approach to the study of organic chemistry The Go-To Guide for Engineering Curricula, Grades 9-12 Cary I. Sneider, 2014-12-05 How to engineer change in your high school science classroom With the Next Generation Science Standards your students won't just be scientists they'll be engineers But you don't need to reinvent the wheel Seamlessly weave engineering and technology concepts into your high school math and science lessons with this collection of time tested engineering curricula for science classrooms Features include A handy table that leads you straight to the chapters you need In depth commentaries and illustrative examples A vivid picture of each curriculum its learning goals and how it addresses the NGSS More information on the integration of engineering and technology into high school science education

Chemistry Steven S. Zumdahl, Susan A. Zumdahl, 2000 Zumdahl's conceptual approach to problem solving early and thorough treatment of reactions and integration of descriptive chemistry and chemical principles throughout are key elements to the success of this bestseller By encouraging students to understand qualitative concepts before considering quantitative problems Chemistry helps students build a solid understanding of topics and avoid common misconceptions The text also includes new Chemical Impact boxes that present everyday applications of chemistry plus over 200 redesigned illustrations with greater clarity and emphasis on molecular level illustrations *DAT* Aftab S. Hassan, 1999 At Lippincott Williams and Wilkins our objective is to help busy students and actual practitioners prepare for the wide array of exams required in the health sciences Our authors and editors are skilled question writers and all our products provide the practice

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