

Periodic Table Basics

Step 1: Complete the squares for each element by adding the atomic number, name, and atomic mass.

Write the atomic number at the top of the square.

Write the element's name under the symbol.

Write the atomic mass at the bottom of the square.

Step 2: Determine the number of protons, neutrons, and electrons in each element.

Step 3: Create a Bohr diagram for each element.

Step 4: Draw the Lewis Structure for each element.

The card for Boron (B) contains the following information:

- Atomic number: 5
- Symbol: B
- Name: Boron
- Atomic mass: 10.81
- Protons (P): 5
- Neutrons (N): 6
- Electrons (E): 5
- Bohr Diagram: A diagram showing a nucleus with 5 protons and 6 neutrons, and 5 electrons in two shells (2 in the first, 3 in the second).
- Lewis structure: A diagram showing the Boron atom with 5 valence electrons (3 single bonds and 1 lone pair).

Step 5: Use the following colors to shade in the square for each element. You should ONLY color in the small square in the upper left-hand corner and not the entire card.

Green = Li & Na

Pink = O & S

Blue = Be & Mg

Purple = F & Cl

Orange = B & Al

Red = C & Si

Tan = N & P

Yellow = He, Ne, & Ar

Step 6: Cut the cards apart and arrange according to atomic number in the pattern shown below. Once you have the cards arranged in the correct order, glue them to a large sheet of construction paper.



Step 7: Answer the questions on the back of this worksheet using the information on your Periodic Table.

Periodic Table Basics Answers

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Periodic Table Basics Answers:

The Complete Idiot's Guide to the GED 5-Subject Crash Course Del Franz, Phyllis Dutwin, Richard Ku, Kathleen Peno, Courtney Mayer, 2012-08-07 Each year hundreds of thousands of people who did not finish high school study to take the battery of GED examinations A GED diploma opens up a new level of career education and compensation opportunities for them This crash course helps them get up to speed quickly on the five major subject areas they will be tested on and gives them test taking practice and hints The easy to use Complete Idiot's Guide format distills the information to its simplest and makes it easy to grasp and remember the essential concepts and facts readers must know to pass the GED tests Subjects covered include Language Arts Writing Sentences parts of speech grammar punctuation writing cohesive paragraphs and planning writing and editing essays Social Studies U S history government and civics economics world history and geography Science Scientific method health and environment biology chemistry physics and earth and space science Language Arts Reading Fiction poetry drama business writing and nonfiction prose Mathematics Number sense arithmetic measurement geometry statistics and probability and algebra functions The book also includes a half length practice test for each of the five subjects as well as extensive in chapter practice sets and answer keys An introductory chapter covers test taking hints and strategies

Elements and the Periodic Table, Grades 5 - 12 Theodore A. Abbgy, 2001-01-01 This informative classroom supplement is a great introduction to the periodic table explored in sequential form It includes activities transparency masters a teacher's guide an element game quizzes tests rubrics and answer keys Unit topics include discovering what elements are the uses of the elements element symbols periodic table organization and more Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character Mark Twain Media also provides innovative classroom solutions for bulletin boards and interactive whiteboards Since 1977 Mark Twain Media has remained a reliable source for a wide variety of engaging classroom resources

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[The Basics of the Periodic Table](#) Leon Gray, 2013-12-15 Provides basic information on the periodic table Includes biographical information on Dmitri Mendeleev color photographs and diagrams sidebars a glossary and further reading sources

Science Vocabulary Building, Grades 5 - 8 Schyrlet Cameron, Carolyn Craig, 2009-02-16 Connect students in grades 5 8 with science using Science Vocabulary Building This 80 page book reinforces commonly used science words builds science vocabulary and increases students readability levels This

comprehensive classroom supplement includes alphabetized word lists that provide pronunciations syllabifications definitions and context sentences for high utility science words Activities allow for differentiated instruction and can be used as warm ups homework assignments and extra practice The book supports National Science Education Standards *Art in Chemistry* Barbara R. Greenberg,Dianne Patterson,2007-12-30 Integrate chemistry and art with hands on activities and fascinating demonstrations that enable students to see and understand how the science of chemistry is involved in the creation of art Investigate such topics as color integrated with electromagnetic radiation atoms and ions paints integrated with classes of matter specifically solutions three dimensional works of art integrated with organic chemistry photography integrated with chemical equilibrium art forgeries integrated with qualitative analysis and more This is a complete and sequential introduction to General Chemistry and Introductory Art topics In this newly revised edition the author a retired Chemistry teacher gives extensive and in depth new explanations for the experiments and demonstrations as well as expanded safety instructions to insure student safety Grades 7 12 Student Study Guide Fundamentals of Chemistry by David E. Goldberg Margaret G. Kimble,1994 **Natural Sciences Gr8 T/g , Study Guide to Accompany Basics for Chemistry** Martha Mackin,1982-01-01 Study Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for Chemistry textbook Each chapter contains Overview Topical Outline Skills and Common Mistakes which are all keyed to the textbook for easy cross reference The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms a summary of general concepts and a list of numerical exercises while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook The Fill in Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students Enrichment Worksheets, Student Edition, for Use with Glencoe Physical Science Aron Thompson,1999 *Glencoe Physical Science* ,1999 **5 Steps to a 5: AP Chemistry 2020** Mary Millhollon,Richard H. Langley,2019-08-02 Get ready to ace your AP Chemistry Exam with this easy to follow multi platform study guideThe immensely popular test prep guide has been updated and revised with new

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The Software Encyclopedia 2000 Bowker Editorial Staff, 2000-05 *McGraw-Hill's 500 MCAT General Chemistry Questions to Know by Test Day* John T. Moore, Richard H. Langley, 2012-06-29 A wealth of problem solving practice in the format that you want This book is the ideal way to sharpen skills and prepare for this MCAT topic Get the problem solving practice for general chemistry you need with McGraw Hill's 500 MCAT General Chemistry Questions to Know by Test Day Organized for easy reference and intensive practice the questions cover all essential topics and the answer key includes detailed explanations for each question Inside you'll find 500 MCAT general chemistry questions organized by subject Detailed solutions to every problem given in the answer key Expert coverage for topics covered by the MCAT *Kaplan SAT II: Chemistry 2004-2005* Kaplan, 2004-03-02 At head of title Kaplan **Business Math Basics** Robert E. Swindle, 1979 5 *Steps to a 5: AP Chemistry 2019 Elite Student Edition* John T. Moore, 2018-07-16 A PERFECT PLAN FOR THE PERFECT SCORE Score Raising Features Include 4 full length practice exams with thorough answer explanations 2 in the book 2 on Cross Platform Hundreds of practice exercises with thorough answer explanations Comprehensive overview of the AP Chemistry Exam format Practice questions that reflect multiple choice experiment based and free response question types just like the ones you will see on test day Proven strategies specific to each section of the test BONUS Cross Platform Prep Course for extra practice exams with personalized study plans interactive tests powerful analytics and progress charts flashcards games and more see inside front and back covers for details 5 MINUTES TO A 5 section 180 Questions and Activities that give you an extra 5 minutes of review for every day of the school year reinforcing the most vital course material and building the skills and confidence you need to succeed on the AP exam The 5 Step Plan Step 1 Set up your study plan with three model schedules Step 2 Determine your readiness with an AP style Diagnostic Exam Step 3 Develop the strategies that will give you the edge on test day Step 4 Review the terms and concepts you need to achieve your highest score Step 5 Build your confidence with full length practice exams

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