

Name: \_\_\_\_\_

## Atomic Structure & the Periodic Table Study Guide

### Atomic Structure

Particle	Charge	Where are they found?
Proton	Positive	Nucleus
Neutron	Neutral/ no charge	Nucleus
Electron	negative	Electron cloud/energy levels outside nucleus

1. What is the rule for writing chemical symbols like Na or Ca? **Capitalize the first letter; lower case second letter**

2. What are the vertical columns on the periodic table called? **Groups or families**

a. How many of these are on the periodic table? **18**

b. Why are the elements in these columns? **They have the same chemical properties (& same # of valence electrons)**

c. Elements in the same group have the same number of **valence** electrons.

3. What are the horizontal rows on the periodic table called? **periods**

a. How many of these are on the periodic table? **7**

b. Elements in these rows have the same number of **energy (electron shells)** levels.

4. What are valence electrons? **Electrons in the outer energy level**

5. How many electrons are in each energy level?

1<sup>st</sup> energy level **2**

2<sup>nd</sup> energy level **8**

3<sup>rd</sup> energy level **8**

6. The atomic number is equal to the **# of protons and also # of electrons**

7. The atomic mass is equal to the **# protons + # of neutrons**

8. How do you find the number of neutrons? **Atomic mass – atomic number**

9. We view the order of the periodic table today according to the **atomic number**

# Study Guide For The Periodic Table

**Speedy Publishing LLC**

## **Study Guide For The Periodic Table:**

**Periodic Table (Advanced)** Speedy Publishing, 2014-08-01 An advanced periodic table of elements displays not only the elements but the ions that form each element A pamphlet with such a visual aid would greatly benefit chemistry students Any student taking chemistry will need to learn the elements A pamphlet would be concise and break the information down simply making it easier to understand and remember It allows students to simply focus on the main point rather than taking in information that they may or may not need

### **Safety Professional's Reference and Study Guide, Third Edition** W.

David Yates, 2020-03-19 This new edition serves both as a reference guide for the experienced professional and as a preparation source for those desiring certifications It s an invaluable resource and a must have addition to every safety professional s library Safety Professional s Reference and Study Guide Third Edition is written to serve as a useful reference tool for the experienced practicing safety professional as well as a study guide for university students and those preparing for the Certified Safety Professional examination It addresses major topics of the safety and health profession and includes the latest version of the Board of Certified Safety Professional BCSP reference sheet a directory of resources and associations as well as state and federal agency contact information Additionally this new edition offers new chapters and resources that will delight every reader This book aids the prospective examination candidate and the practicing safety professional by showing them step by step how to solve each question formula listed on the BCSP examination and provide examples on how and when to utilize them

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chemistry student lives and breathes the information that is depicted on the periodic table It is the entire comprehensive list of every element we know of and from these elements all things in our known universe evolve It also lists atomic weight and the amount of electrons each element has in its structure A pamphlet that depicts this table would be a go to guide for all chemistry students throughout their schooling and possibly their career

### **Hazmat Chemistry Study Guide (Second Edition)** Jill Meryl Levy, 2011 *Almond Books Chemistry Study Guide for ICSE Class 10 for 2024 Exam - Chapterwise & Categorywise Notes, ICSE School Prelims, MCQs, Previous Years Board Questions, Fully Solved* Almond Books,

*Understanding Earth Student Study Guide* Peter L. Kresan, Reed Mencke, 2006-05-03 The guide helps students prepare for lectures and exams with a heavy emphasis on utilizing the book s Web resources

### **Periodic Table (Advanced) (Speedy Study Guide)** Speedy Publishing LLC, 2014-11-01 If you are studying any type of science and need to know about the periodic table and all of its elements you may benefit from a periodic table advanced study guide in order to help you organize and apply the information in a matter that makes sense With so many different elements on the table to memorize you may be overwhelmed by the amount of information Having a study guide helps to break down the information for you so that it is easier to understand and remember

**Student Study Guide Fundamentals of Chemistry by David E. Goldberg**  
Margaret G. Kimble, 1994 **Periodic Table Basic** Mark Jackson, 2018 **Periodic Table Basic (Speedy Study Guide)**

Speedy Publishing LLC,2014-09-07 Chemistry classes can be some of the most difficult classes for students There are many formulas numbers and calculations to be done and memorized Students are responsible for many tasks during the school year Studying the periodic table of the elements of chemistry and physics can be overwhelming A periodic table study guide can help students remember the chemical numbers and atomic weights of elements It can be viewed at any time the student has idle time They can refer to eat while waiting in a line or when commuting on mass transportation The guide is essentially a life saver

**Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today** Seager/Slabaugh,2004

The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application *Atoms and the Periodic Table (Inorganic Chemistry Fast Facts)* E Staff, Learn and review on the go Use Quick Review Chemistry Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Important facts that you need to know about the Periodic Table and atomic trends Perfect study notes for all high school health sciences premed medical and nursing students

*The Periodic Table of the Elements--workbook/study Guide* Communication Skills Corporation,Prentice-Hall Media,1980

**Study Guide for Chemical Principles** Thomas Elliott Taylor,1979

*Organic Chemistry Fundamentals Study Guide* Speedy Publishing,2014-11-26

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**Study Guide/Selected Solutions Manual** Julie R. Frentrup,2002-06 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the text book

*Robinson Chemistry Study Guide* Robinson,1992

*Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual* Leo J. Malone,Theodore O. Dolter,2012-01-03

The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring

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*Study Guide, Introductory Chemistry, a Foundation ; Introductory Chemistry ; Basic Chemistry* Iris Stovall,Donald J. DeCoste,2000     *Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry* Katherine J. Denniston,Katherine,2006

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