

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?
1st energy level 2 2nd energy level 8 3rd 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

Periodic Table Printable Study Guide

Marcia L. Tate, Warren G. Phillips

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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Standards-based Activities and Assessments for the Differentiated Classroom Carolyn Coil,2004 How to plan and implement differentiation using practical strategies teacher friendly directions and time saving techniques

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The Inclusion Toolkit Sarah Herbert, 2011-08-10 With downloadable electronic resources Are you looking for ways to make your classroom more inclusive to children with learning difficulties The practical strategies suggested in this book are supported by current research into effective teaching and learning and the author shows you how inclusion friendly teaching could look in your classroom The book is aimed at the teacher who wishes to respond to the diversity of learning needs of children that are placed within their mainstream classroom without teaching each child differently The advice given for teaching all learners aged 7 to 14 will help you ensure that you are providing well for all your learners that only a very few will need substantially different support Rather than focussing on the differences between learners the common strategies that will enhance the learning of all based on the common concerns of class teachers working with pupils who have Special Educational Needs are identified Structured around the three areas of memory motivation and communication which are key to addressing inclusion friendly teaching the book covers the memory friendly classroom the motivation friendly classroom the communication friendly classroom Ideal for all classroom teachers working with children aged 7 to 14 and with plenty of supporting material available to download from the SAGE website which works in tandem with each chapter of the book this toolkit will make inclusive teaching a reality

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 Cassidy, Gerald Holton, F. James Rutherford, 2002-09-10 Understanding Physics provides a thorough grounding in
 contemporary physics while placing physics into its social and historical context Based in large part on the highly respected
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 thus teaches about the basic phenomena in the physical world and the concepts developed to explain them shows that
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 atoms How do relativity theory and quantum mechanics alter our conception of Nature and in what ways do they leave the
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 How does the evidence for non scientific ideas such as UFOs ESP and the like differ from the evidence for accepted scientific
 results **Chemistry** Rob Ritchie, 2008-07 Divided into seven manageable day sections this timed revision programme
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The Extraordinary Chemistry of Ordinary Things, Study Guide Carl H. Snyder, David F. Dever, 1995-01-19
Examines the chemistry of the substances of our everyday world Our daily lives are immersed in chemicals an effective way to teach and learn chemistry is by examining the goods and substances that we use in our daily lives and that affect us and our environment

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