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Date

Periodic Trends Worksheet

Directions: Use your notes to answer the following questions.

 Rank the following elements by increasing atomic radius: carbon, aluminum, oxygen, potassium.

Oxygen < Carbon < Aluminum < Potassium

2. Rank the following elements by increasing electronegativity: sulfur, oxygen, neon, aluminum.

Neon < Aluminum < Sulfur < Oxygen

3. Why does fluorine have a higher ionization energy than iodine?

Fluorine has nine protons attracting 9 electrons which are much closer to the nucleus compared to lodine. This results in smaller size of Fluorine than lodine making it difficult to remove an electron from the atom.

4. Why do elements in the same family generally have similar properties?

Because they have same number of electrons in the outer shell (valence electrons) which take part in chemical reaction.

- Indicate whether the following properties increase or decrease from left to right across the periodic table.
 - a. atomic radius (excluding noble gases)
 - b. first ionization energy
 - c. electronegativity

Decreases Increases

Increases

What trend in atomic radius occurs down a group on the periodic table? What causes this trend?

Atomic radius increases down the group on the periodic table. As we compare the elements down the group, the effective nuclear charge increases, but at the same time the outermost electrons are found in the shell that is farther away from the nucleus. Also the number of screening electrons increases. This results in reduced attraction between the nucleus and the outermost electrons.

7. What trend in ionization energy occurs across a period on the periodic table? What causes this trend?

lonization energy increases from left to right across the period. The atomic size becomes smaller from left to right. So it becomes harder to remove electron from the atom. Hence the energy required to do so (lonization Energy) increases.

Periodic Lab Table Trend Activities Answer Key

Michael J. Padilla

Periodic Lab Table Trend Activities Answer Key:

Hands-On General Science Activities With Real-Life Applications Pam Walker, Elaine Wood, 2008-04-21 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have resource for science teachers of grades 5 12 The book offers a dynamic collection of classroom ready lessons projects and lab activities that encourage students to integrate basic science concepts and skills into The Periodic Table I D. Michael P. Mingos, 2020-02-05 As 2019 has been declared the International Year of the Periodic Table it is appropriate that Structure and Bonding marks this anniversary with two special volumes In 1869 Dmitri Ivanovitch Mendeleev first proposed his periodic table of the elements He is given the major credit for proposing the conceptual framework used by chemists to systematically inter relate the chemical properties of the elements However the concept of periodicity evolved in distinct stages and was the culmination of work by other chemists over several decades For example Newland's Law of Octaves marked an important step in the evolution of the periodic system since it represented the first clear statement that the properties of the elements repeated after intervals of 8 Mendeleev's predictions demonstrated in an impressive manner how the periodic table could be used to predict the occurrence and properties of new elements Not all of his many predictions proved to be valid but the discovery of scandium gallium and germanium represented sufficient vindication of its utility and they cemented its enduring influence Mendeleev's periodic table was based on the atomic weights of the elements and it was another 50 years before Moseley established that it was the atomic number of the elements that was the fundamental parameter and this led to the prediction of further elements Some have suggested that the periodic table is one of the most fruitful ideas in modern science and that it is comparable to Darwin's theory of evolution by natural selection proposed at approximately the same time There is no doubt that the periodic table occupies a central position in chemistry In its modern form it is reproduced in most undergraduate inorganic textbooks and is present in almost every chemistry lecture room and classroom This first volume provides chemists with an account of the historical development of the Periodic Table and an overview of how the Periodic Table has evolved over the last 150 years It also illustrates how it has guided the research programmes of some distinguished chemists **Exploring Physical Science in** the Laboratory John T. Salinas ,2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts Chemistry: Molecules, Matter, and Change Media Activities Book Loretta Jones, Carl Hoeger, Peter William

Atkins, Regina Schoenfield-Tacher, 2000-01-15 The Media Activity Book MAB for Jones Atkins Chemistry molecules matter and change contains chapters with lists and descriptions of some of the media available as you study the chapter Each activity begin with a specific textbook reference Then you are given a time estimate of how long it will take to use the media An M media icon in the margin of the textbook means that media exists to support that area of text The media is found in three different places on the website and on two CDs Exploring General Chemistry in the Laboratory Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science Build the Brain the Common Core Way Pamela Nevills, 2014-04-03 Brain compatible learning **Version 2.1** ,1998 techniques to help you motivate and challenge your students Boldly take hold of the new Common Core expectations with this fresh innovative resource full of practical tips from international educational expert Pamela Nevills Find out what s new what s expected and how understanding the connection between neuroscience and deep learning is the key to Common Core success Nevills provides cutting edge easy to implement ideas that beg to be used immediately Learn to Skillfully integrate the standards with current educational practices Understand the science behind Common Core requirements Plan innovative and creative activities to help students learn about learning Master teacher lead student centered 21st Century Learning activities Includes school vignettes sample lessons K 12 links and vivid brain imagery that diagram how deep learning happens Revolutionize your teaching and prepare students for success in school and beyond with this encouraging easy to read guide Build the Brain the Common Core Way is an outstanding resource for teachers who are implementing our new standards It provides practical examples that demonstrate how to turn the classroom into a student centered learning environment where high expectations abound fostering higher levels of student achievement Melissa Miller Science History Instructor Randall G Lynch Middle School Farmington AR There are examples not only of ways to integrate brain based pedagogy and the Common Core Standards but also examples from across disciplines The author doesn t just focus on one area of expertise but integrates core and elective curriculum into the fabric of each chapter Deanna Brunlinger Science Teacher Elkhorn Area High School WI **Prentice Hall Science Explorer** Michael J. Padilla, 2002 The Software Encyclopedia, 1997 Changing How We Teach and Learn With Handheld Computers Carolyn Staudt, 2005 Crystal clear examples that are rich in content and aligned to standards from a leading expert in the field Alan November Author and Consultant Create a dynamic interactive environment that extends beyond the classroom In this digital era how can

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