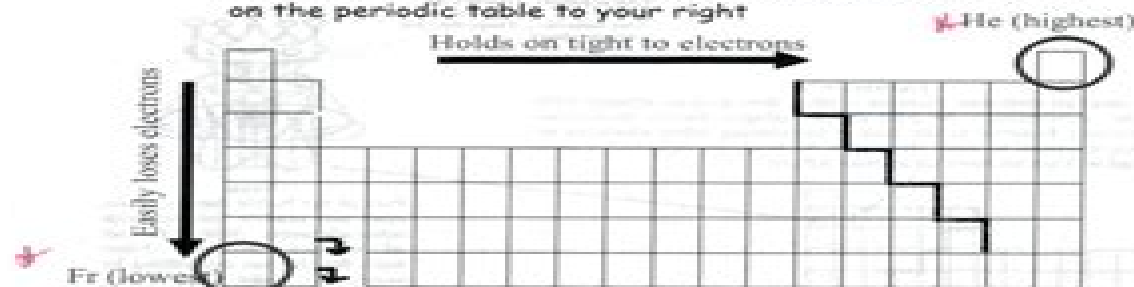


b. Why do elements get larger as you go down a group? Additional energy levels are added to the electron cloud as you go down a group.

Ionization Energy:

1. In simple terms, explain ionization energy. The energy required to remove an electron from a neutral atom.
2. Using the information in figure 5-15 (Pg 143) in your book, write the ionization energy for alkali metals & period #2 on the periodic table to your right



3. On the arrows on the diagram, indicate the trend for ionization energy as you move down a column and across a row. (Options: easily loses an electron OR holds on tight to electrons)
4. Of all the elements on the periodic table, identify & circle the element with the highest & lowest ionization energy.

5. Rank the following elements from highest to lowest ionization energy:

a) Be, Ba, Mg = Be, Mg, Ba

b) Li, F, B = F, B, Li

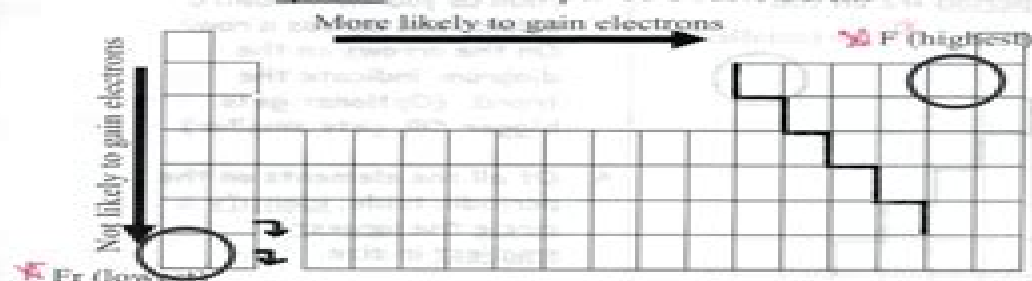
6. Why does it take less energy to remove an electron from a large atom compared to a small atom? Their electrons are closer to the nucleus, so the protons have a larger "pull" on them.

It takes less energy to remove an electron from a large atom because

Electronegativity: the effective nuclear charge decreases and electrons are not held as tightly since

1. Explain Electronegativity: The ability of an atom to get electrons from other atoms.

2. Using the information in figure 5-20 (pg 151) in your book, write the electronegativity for the Halogens and period #2 on the periodic table below.



3. On the arrows on the diagram, indicate the trend for electronegativity as you move down a column and across a row. (Options: more likely to gain electrons, not likely to gain electrons)

4. Of all the elements on the periodic table, identify & circle the element with the highest & lowest electronegativity.

5. Rank the following elements from most to least electronegative element:

a) Be, Ba, Mg = Be, Mg, Ba

b) Li, F, B = F, B, Li

6. Why are small atoms better at pulling electrons off of larger atoms than vice versa?

Their electrons are closer to the nucleus, so the protons have a larger "pull" on the electrons in other atoms.

not detailed enough
The increased number of energy level(s) increases the distance over which nucleus must pull and therefore reduces the attraction for electrons } *AP answer*

Elements Characteristics And Periodicity Answers Pogil

KJ Lindholm-Leary



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Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes

Atoms, Molecules & Elements: Properties of Important Elements Gr. 5-8 George Graybill, 2015-10-01 This is the chapter slice Properties of Important Elements from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives

Periodic Table & Periodic Properties M. Satake, 2010 The book is primarily meant for undergraduate students of chemistry General reader who is interested in chemistry of elements and their behaviour will find it equally interesting and easy to understand

Atoms, Molecules & Elements: What Are Elements? Gr. 5-8 George Graybill, 2015-10-01 This is the chapter slice What Are Elements from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives

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nonmetals and inert gases Aligned to the Next Generation Science Standards and written to Bloom s Taxonomy and STEAM initiatives additional hands on experiments crossword word search comprehension quiz and answer key are also included

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

The Periodic Table Eric R. Scerri,2019-07-25 The periodic table of elements first encountered by many of us at school provides an arrangement of the chemical elements ordered by their atomic number electron configuration and recurring chemical properties and divided into periodic trends In this Very Short Introduction Eric R Scerri looks at the trends in properties of elements that led to the construction of the table and shows how the deeper meaning of the table s structure gradually became apparent with the development of atomic theory and in particular quantum mechanics which underlies the behaviour of all of the elements and their compounds This new edition publishing in the International Year of the Periodic Table celebrates the completion of the seventh period of the table with the ratification and naming of elements 113 115 117 and 118 as nihonium moscovium tennessine and oganesson Eric R Scerri also incorporates new material on recent advances in our understanding of the origin of the elements as well as developments concerning group three of the periodic table ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Chemical Elements Pocket Guide Coventry House Publishing,2020-02-08 The Chemical Elements Pocket Guide serves as a portable reference for quick study and efficient review of the 118 elements on the periodic table This on the go resource details the physical and atomic properties of each element as well as their history and characteristics in bullet point format The book s small trim size 4 25 x 6 8 inches is intended to fit inside a lab coat pocket and the bound design means you no longer need to carry loose bulky flashcards that can be misplaced or destroyed Includes the updated names nihonium moscovium tennessine and oganesson for elements 113 115 117 and 118 respectively Information provided includes Atomic number Atomic symbol Element category Standard state Atomic mass Electron configuration Oxidation states Electronegativity Atomic radius Ionization energy Electron affinity

Melting point Boiling point Density Year discovered Discovered by Appearance Natural occurrence Interesting fact

Chemical Periodicity Robert Thomas Sanderson,2013-04-20 **Elements and the Periodic Table, Grades 5 - 12**

Theodore S. Abbigy,2013-01-02 Aligned to Common Core State Standards Elements and the Periodic Table present the basics of the Periodic Table in an easy to understand easy to master way It contains fun activities transparency masters quizzes tests rubrics grading sheets and more From basic elements to table organization Elements and the Periodic Table is the essential handbook for middle school science **The Mathematics of the Periodic Table** D. H. Rouvray,R. Bruce

King,2006 The Periodic Table effectively embraces the whole realm of chemistry within the confines of one comparatively simple and easily understood chart of the chemical elements Over many years the Periodic Table has proven to be indispensable not only to chemists of all kinds but also to a host of other scientists including biologists geologists and physicists It is thus hardly surprising that the Periodic Table has become one of our most celebrated contemporary scientific icons In the present work various aspects of the Periodic Table that are seldom if ever featured elsewhere are given prominence The twelve presentations contained herein all have a mathematical flavour because it is the intention to highlight the often neglected mathematical features of the Periodic Table and several closely related topics The book starts out by considering predictions of what the ultimate size of the Periodic Table will be when all of the possible artificial chemical elements have been synthesised It then moves on to an examination of the nature of the periodicity extant in the Periodic Table and some methods for the prediction of the properties of the super heavy elements The Periodic Table is next explored in various dimensions other than two The natural clustering of the elements into groups is studied by three different but complementary routes namely via the topological structures of the groups the self association of the elements as evidenced by neural network studies and information theoretical analysis of the behaviour of atoms Following a detailed investigation of the mathematical basis for the periodicity seen in atomic and molecular spectroscopy three separate presentations delve into many different aspects of the group theoretical structure of the Periodic Table The unusual combination of themes offered here will appeal to all who seek a more detailed and intimate knowledge of the Periodic Table than that available in standard texts on the subject **The Periodic Kingdom** Peter William Atkins,2001 Arranged much like a travel guide this book

introduces the reader to the general features of the periodic table the history of the elements and the underlying arrangement of the table in terms of the structure and properties of atoms **The Periodic Table** Paul Parsons,Gail Dixon,2014 Presented with a color coded system for easily navigating the different groups of elements provides information on the characteristics and uses of the one hundred eighteen elements that make up the Periodic Table **Periodic Table**

Advanced BarCharts, Inc,Mark Jackson,2014-12-31 The ultimate reference tool and lab partner for any student of science durably laminated and designed to fit as much info as possible in this handy 6 page format Separate property tables are broken out for the ease of locating trends while studying and working while other pages offer essential notes about the table

s organization and history Consistently a best seller since it s first creation *Periodicity and the S- and P- Block Elements* Nicholas C. Norman,2011 This book is a revised version of the Chemistry Primer entitled Periodicity and the p Block Elements In addition to having updated and substantially rewritten parts of the first book the most obvious change is that certain aspects of s block element chemistry are now discussed explicitly and so this group of elements are therefore included in the title There s an overview of some of the important trends periodicity found in the properties of the s and p block elements and the compounds that they form and to provide the reader with some simple rules of thumb whereby they might appreciate and better understand these trends *The Basics of the Periodic Table* Leon Gray,2013-12-15 A sweeping history of both the discovery and classification of elements and the development of the modern periodic table Included are discussions of the discovery of matter atoms atomic structure molecules compounds ions and isotopes as well as the first identifications of the 118 and counting elements and the various ways they have been classified and organized by prominent scientists up to the present day periodic table Instruction in how to read the periodic table is accompanied by examinations of the various groups of elements their location on the table and their properties and practical uses This text strongly supports Common Core Standards for the reading of scientific and technical texts and accounts and furnishes ample opportunities to summarize cite evidence and analyze connections between ideas individuals and events Periodic Tables Unifying Living Organisms at the Molecular Level A. Lima-de-Faria,2017 The DNA sequencing of a series of living organisms has elucidated many biological problems But the internal atomic and electronic evolution of DNA remains to be mapped in detail RNA and DNA now appear to be the prime determinants of biological evolution leading to the sudden appearance of novel organism structures and functions that emerge ready made as a surprise to the organism This has been demonstrated by the manipulation of genes that led to the sudden production of additional complete wings and legs in flies and birds The study of this internal atomic construction of macromolecules is being investigated at the large electron accelerators such as the MAX IV Synchrotron Radiation Laboratory Lund University Sweden The periodicity of the chemical elements is well known from its iconic Table Significantly this periodicity can now be seen to extend to the properties of living organisms Biological properties as different as flight vision luminescence and regeneration as well as others show unexpectedly periodic emergence They resurface without previous announcement in most unrelated plant and animal families and they emerge irrespective of whether the organism is a simple invertebrate or a most complex mammal Moreover this periodicity does not necessarily start at the cell or DNA levels but appears initially in crystals and minerals where it is shown to be a pure atomic and electronic process e g in luminescence and regeneration The assembled molecular evidence led to the construction of Periodic Tables of living organisms placing them in a position comparable to the periodicity of the chemical elements Surprisingly there are striking resemblances between the periodicities of the chemical elements and those of living organisms In addition the two types of Tables increase our insight into the events directing atomic evolution since the

periodic law established in chemical elements turns out to be applicable to the periodicity of living organisms The new Periodic Tables introduce a predictive capacity in biological evolution that before was hardly contemplated Eric Scerri from the Department of Chemistry and Biochemistry California University Los Angeles who is the Author of the book The Periodic Table Its Story and its Significance Oxford University Press stated in an e mail that Professor Lima de Faria s book is wonderful and a pioneering work The Periodic Table Tom Jackson,2017 Which is the densest element Which has the largest atoms And why are some elements radioactive From the little known uses of gold in medicine to the development of the hydrogen bomb this is a fresh new look at the Periodic Table Combining cutting edge science with fascinating facts and stunning infographics this book looks at the extraordinary stories of discovery amazing properties and surprising uses of each elements whether solid liquid or gas naturally occurring synthesised or theoretical From hydrogen to oganesson this is a fact filled visual guide to each element each accompanied by technical data category atomic number weight boiling point as well as fun facts and stories about their discovery and surprising uses Periodic Table And Periodic Properties Arora M G,M. G. Arora,1997-01-01 Periodic Table Is The Essence Basis The Systematic And Scientific Study Of Chemistry Physics And Even Biological Sciences Though Aplenty Of Literature On The Subject Is Available Scattered Here And There The Present Book Is Unique Which Discusses Periodic Table And Periodic Properties Elaborately Students Of Undergraduate And Postgraduate Classes Researchers And Teachers Of Chemistry And Physics Will Find This Book Most Useful And Informative

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