Periodicity of Elements

Why?

Within musical scales the notes form a series that repeats every eighth note. Eight notes up from a C note is another C note. Each interval or series is referred to as an octave since it contains eight notes. Elements also form an eight step series. The purpose of this activity is to explore how valence electrons generate an eight step series that repeats itself within the Periodic Table.

Learning Objectives

- Associate groups on the periodic table with a number of valence electrons in an electron configuration.
- Associate periods on the periodic table with a number of principal energy levels (shells) in an electron configuration.

Success Criteria

- Assign a group number for the elements in groups 1, 2 and 13-18 based upon the number of ground-state valence electrons in their atoms.
- Assign a period number for the elements in groups 1, 2 and 13-18 based upon the number of occupied shells in a ground-state electron configuration for the element.

Prerequisites

- Electron Configuration
- Nuclear Charge

Information

Periodic Table is grid made up of:

- Rows (or periods) that proceed horizontally (from side to side) across the table
- Columns (or groups) that proceed vertically (up and down) on the table

Resources

Periodic Table

Periodicity Of Elements Pogil Answers

Linda Trombley, Faye Williams

Periodicity Of Elements Pogil Answers:

POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project **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 **Culturally Responsive Strategies for Reforming STEM Higher Education** Kelly M. Mack, Kate Winter, Melissa Soto, 2019-01-14 This book chronicles the introspective and contemplative strategies employed within a uniquely designed professional development intervention that successfully increased the self efficacy of STEM faculty in implementing culturally relevant pedagogies in the computer

information sciences Atoms, Molecules & Elements: Patterns In the Periodic Table Gr. 5-8 George Graybill, 2015-10-01 This is the chapter slice Patterns In the Periodic Table 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 guiz 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 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 guiz 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 Atoms, Molecules & Elements Gr. 5-8 George Graybill, 2007-09-01 Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource makes the periodic table easier to understand Begin by answering what are atoms See how the atomic model is made up of electrons protons and neutrons Find out what a molecule is and how they differ from elements Then move on to compounds Find the elements that make up different compounds Get comfortable with the periodic table by recognizing each element as part of a group Examine how patterns in the period table dictate how those elements react with others Finally explore the three important kinds of elements metals 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 guiz and answer key are also included 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 **Chemical Periodicity** Robert Thomas Sanderson.2013-04-20 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 Mastering the Periodic Table Linda Trombley, Faye Williams, 2000 Whether students are studying chemistry biology or other sciences the periodic table is a vitally important tool These 50 word games puzzles and other creative activities unlock the nature of the various elements while explicating periodicity atomic structure element groups and more Complete teacher support includes background information answer kevs and materials lists Chemical Elements Pocket Guide Coventry House Publishing, 2020-02-08 The Chemical Elements Pocket Guide serves as a portable reference for guick 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 **The Periodic Table of the Elements** Richard J. Puddephatt, P. K. Monaghan, 1986 The periodic table provides an excellent basis for understanding developments in inorganic chemistry and continues to play a fundamental role in the planning of new developments in chemistry. The first part of this book shows how the periodic table is constructed on the basis of the atomic structures of the elements and the later chapters using the periodic table as central theme describe the physical and chemical properties of the elements and their compounds For the second edition the authors have added a fuller discussion of chemical bonding emphasized the problem of classifying compounds too rigorously as purely ionic or covalent and incorporated more material on the anomalous behavior of first row elements and the discovery of new elements The arguments are so clearly and logically developed that the book achieves an unusually coherent account of the concept of periodicity The Times Higher Education Supplement on the first edition

Periodicity and the S- and P- Block Elements Nicholas C. Norman, 2021 The renowned Oxford Chemistry Primers

series which provides focused introductions to a range of important topics in chemistry has been refreshed and updated to suit the needs of today s students lecturers and postgraduate researchers. The rigorous yet accessible treatment of each subject area is ideal for those wanting a primer in a given topic to prepare them for more advanced study or research Moreover cutting edge examples and applications throughout the texts show the relevance of the chemistry being described to current research and industry The learning features provided including end of chapter questions and online multiple choice questions encourage active learning and promote understanding Furthermore frequent diagrams margin notes further reading and glossary definitions all help to enhance a student s understanding of these essential areas of chemistry This new and updated edition of Periodicity and the s and p Block Elements provides a compelling and accessible introduction to key periodic trends found within the s and p blocks of the periodic table and includes coverage of the elements themselves as well as the compounds they form Additional chapters focus of acidity and basicity as well as on structure The final chapter is entirely new to the second edition and contains a critical examination of many theories models and approaches to the study of the ideas explored in the book Digital formats and resourcesThe second edition is available for students and institutions to purchase in a variety of formats and is supported by online resources. The e book offers a mobile experience and convenient access along with functionality tools navigation features and links that offer extra learning support www oxfordtextbooks co uk ebooks Online resources include multiple choice questions for students to check their understanding and for registered adopters figures and tables from the book 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 The Periodic <u>Table</u> 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 The Elements Barber, 2007-08-01 Explores Elements And Atoms Rows And Columns Common Elements Metals And Nonmetals And Elements Into Compounds The Periodic Kingdom P. W. Atkins, 1995 An introductory journey through the periodic table explains how every tangible object is comprised of the various elements while chronicling the history of element discovery and explaining how elemental knowledge can be applied 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 quide 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 Periodic Table 91 Success Secrets - 91 Most Asked Questions on Periodic Table - What You Need to classroom resources Know Patrick Stein, 2014-10-01 Probably The Best Periodic table Guide To Date There has never been a Periodic table Guide like this It contains 91 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Periodic table A quick look inside of some of the subjects covered Extended periodic table Predicted properties of undiscovered elements Extended periodic table Elements 165 to 172 Extended periodic table Eka superactinides Extended periodic table 8s elements Transition metal Position in the Periodic Table Block periodic table Relativistic effect Periodic table deviations History of the periodic table Ancient times Period periodic table Period 1 Chemical element The periodic table Period periodic table Period 8 Periodic table Blocks Periodic table Further development Group periodic table Periodic table Ionization energy Extended periodic table large version Period periodic table Period 3 Fricke model Extended periodic table Alternative periodic tables Elements repeating Ronald L Rich 2005 Periodic table Other conventions and variations Wide periodic table large version Periodic table electron configurations Extended periodic table 7d transition metals

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