

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 Key

Lei Huang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Periodicity Of Elements Pogil Key:

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 Conference Proceedings. New Perspectives in Science Education Pixel, 2015 *Cooperative Learning in Higher Education* Barbara Millis, 2023-07-03 Research has identified cooperative learning as one of the ten High Impact Practices that improve student learning If you ve been interested in cooperative learning but wondered how it would work in your discipline this book provides the necessary theory and a wide range of concrete examples Experienced users of cooperative learning demonstrate how they use it in settings as varied as a developmental mathematics course at a community college and graduate courses in history and the sciences and how it works in small and large classes as well as in

hybrid and online environments The authors describe the application of cooperative learning in biology economics educational psychology financial accounting general chemistry and literature at remedial introductory and graduate levels The chapters showcase cooperative learning in action at the same time introducing the reader to major principles such as individual accountability positive interdependence heterogeneous teams group processing and social or leadership skills The authors build upon and cross reference each others chapters describing particular methods and activities in detail They explain how and why they may differ about specific practices while exemplifying reflective approaches to teaching that never fail to address important assessment issues

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

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 on 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 resources The second edition is available for students and institutions to purchase in a variety of formats and is supported by online resources The 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

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 *Sorting The Elements* Barber,2007-08-01 Explores Elements And Atoms Rows And Columns Common Elements Metals And Nonmetals And Elements Into Compounds *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 Energy Wave of the Periodic Table William C. Scott,2007

Definitive Periodic Law is revealed in arrangement of new Periodic Table repeating sequential numbers of protons discovered in Groups 1 through 18 in the elements of the new ENERGY WAVE of the Periodic Table The elements in the new ENERGY WAVE of the Periodic Table are given in the ground state which is one electron for each proton This arrangement provided a unique opportunity to observe the nucleus of the elements By incorporating the sequential numbers of protons underlying the Energy Levels K L M N O P Q in shell blocks s p d and f of the Group elements it revealed what had been hidden and veiled in the complexity of electron configurations Sequential numbers of protons are observed to repeat in the Group elements from period to period This is the true revealed energy force creating the similar physical and chemical properties of Groups 1 through 18 from period to period in the Periodic Table The ENERGY WAVE of the Periodic Table had revealed Definitive Periodic Law Definitive Periodic Law is the number of protons underlying the Energy Levels K L M N O P Q in the nucleus of the Elements These sequential numbers of protons repeat in shell blocks s p d and f forming groups that have similar physical and chemical properties from period to period These sequential numbers of protons are the cornerstones of the nucleus and provide the atomic orbitals of the electrons the foundation for their spatial relationship to the nucleus as

described by the azimuthal angular and magnetic numbers of quantum chemistry These sequential numbers of protons are very important as they reveal new explanation to chemical bond angles and the molecular geometry and structure of molecules

Decoding the Periodic Table Jurjen Van Van der Wal, 2010-06-16 Decoding the Periodic Table In the year 1809 Russian Chemist Dimitri Ivanovich Mendeleev published the first Chemical Periodic Table of the Elements Since then scientists developed a theory that every element consists of a tightly packed mass of protons and neutrons which is surrounded by concentric spheres which are occupied by orbiting electrons This concept is known as the Standard Model but it is flawed because it cannot accommodate gravity For many decades researchers including this author in the late 1960 s tried to formulate theories that in a comprehensive way would unite all physical designs and phenomena under a common denominator but to no avail The String Theory is one of them but it has found no success In 1989 the author of the book made a fresh start again with the notion that particles such as the proton neutron and electron would not be round but that they would have straight lined square or cubic configurations because the Periodic Table s had quadratic numbers in their quantities of elements such as Period 1 with 2 elements 2×1^2 Periods 2 3 8 2×2^2 Periods 4 5 18 2×3^2 and Period 6 7 32 2×4^2 This might indicate square structural relationships lets give it a try It worked it took 20 years to do it it was a fascinating journey falling down and getting up again and again working without a computer with all figures hand drawn and discovering that the forces that make the nuclear mass of the neutron do that by multiplying two force filled cubic volumes as in $3F \times 3F \times 3F \times 3F \times 3F \times 3F$ 1838 2656

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

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

Elements Theodore Gray, 2012-04-03 With more than 1 million copies sold worldwide The Elements is the most entertaining comprehensive and visually arresting book on all 118 elements in the periodic table Includes a poster of Theodore Gray s iconic photographic periodic table of the elements

Based on seven years of research and photography by Theodore Gray and Nick Mann *The Elements* presents the most complete and visually arresting representation available to the naked eye of every atom in the universe Organized sequentially by atomic number every element is represented by a big beautiful photograph that most closely represents it in its purest form Several additional photographs show each element in slightly altered forms or as used in various practical ways Also included are fascinating stories of the elements as well as data on the properties of each including atomic number atomic symbol atomic weight density atomic radius as well as scales for electron filling order state of matter and an atomic emission spectrum This of solid science and stunning artistic photographs is the perfect gift book for every sentient creature in the universe

Mastering the Periodic Table Linda Trombley, J. Weston Walch (Firm), 1985 *The Periodic Table in Minutes* Dan Green, 2016-09-06 An icon of science the Periodic Table defines the fundamental chemistry of everything in the universe In this compact yet comprehensive guide Dan Green outlines the history development and workings of the table shows how its design reflects and illuminates the organisation of all matter and even explains what it has to tell us about the chemistry of distant stars and of our own bodies Contents include an individual entry for every known element detailing properties uses and key data and sections on the patterns and groups of the famous table as well as explanations of basic chemistry concepts such as elements and compounds atomic structure chemical bonds reactions and radioactivity amongst many others

Mastering the Periodic Table Linda Trombley, 1988 *Periodic Table 91 Success Secrets - 91 Most Asked Questions on Periodic Table - What You Need to 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 Neutronium Neutronium and the periodic table The Periodic Table of Videos Development Periodic table Layout History of the periodic table Alexandre Emile Beguyer de Chancourtois Mendeleev Periodic table Alternative periodic tables Other Periodic table crystal structure Body centred cubic Periodic table Electron configuration and much more

Periodic Tables Unifying Living Organisms At The Molecular Level: The Predictive Power Of The Law Of Periodicity

Antonio Lima-de-faria, 2017-11-08 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, 2020-02-04 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

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