

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 Worksheet Pogil 2020answers

Wenbin Ji



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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 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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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 quiz and answer key are also included 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 keys and materials lists **Elements and the Periodic Table, Grades 5 - 12** Theodore A. Abbgly,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 **Elements and the Periodic Table, Grades 5 - 12** Theodore S. Abbgly,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 Mastering the Periodic Table Linda Trombley,1988 **The Periodic Table** Tom Jackson,2019 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

Periodic Table of the Elements Ekkehard Fluck,Klaus G. Heumann,1986-07-09

The Periodic Table of the Elements Richard J. Puddephatt,Patrick Kevin Monaghan,1994

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