

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 2005 2006

Answers Key

George Graybill



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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

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

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

Mastering the Periodic Table Linda Trombley, 1988 **Chemical Periodicity** Robert Thomas Sanderson, 2013-04-20 *The Periodic*

Table of the Elements Richard J. Puddephatt, Patrick Kevin Monaghan, 1994 **Mastering the Periodic Table** Linda Trombley, J. Weston Walch (Firm), 1985 *Understanding the Periodic Table* Jane P. Gardner, 2018 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

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