

POGIL: Periodic Table Trends

(Adapted from Rush Henrietta CSD)

Why:

The Periodic Table is one of the greatest inventions in the history of man. It allows scientists to predict physical and chemical properties of the elements. Dimitri Mendeleev (a Russian scientist) and Robert Mosley (a British chemist) put together this table in the late 1800's based on properties of the elements known at the time. The trends in these properties as you go across periods and down groups is the subject of this Chem POGIL.

Periodic Table of the Elements

Legend:

- Alkali metals
- Alkaline earth metals
- Transition metals
- Non-metals
- Metals
- Metalloids
- Very active metals

The table shows elements from Hydrogen (H) to Oganesson (Og), with color-coded regions for different categories of elements.

Success Criteria:

- Understand the meaning of atomic radius, reactivity, electronegativity, ionization energy
- Recognize trends in atomic radius, reactivity, ionization energy and electronegativity as you go across periods and down groups.

Resources:

IB Chemistry Data Booklet 4th edition

Prerequisites:

Answer the following questions using the resources above.

- What happens to the number of valence electrons as you go down a group on the periodic table?

It remains the same

- What happens to the number of valence electrons as you go from left to right across a period?

It increases by one except in the case of transition metals

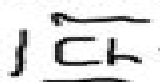
- What happens to the number of energy levels as you go down a group on the periodic table?

It increases by one

- What happens to the number of energy levels as you go from left to right across a period?

It remains the same

- Draw a Lewis structure for a Cl atom.



- Draw a Bohr diagram for the Cl atom. (draw above)

- In this lab we will be talking about atomic radius.

- Look up the atomic radius of Cl
175 pm

- Why is it possible to show the atomic radius using a Bohr diagram but not by using a Lewis structure?

Because the Lewis structure only represents the last energy level

- On your Bohr diagram draw an arrow to represent the radius of the Cl atom.

- Define *periodic*:

Recurrent, it repeats

- Define *trend*:

Tendency that elements follow when moving across a period or group

Pogil Cracking The Periodic Table Intro

Linda Trombley, Faye Williams



Pogil Cracking The Periodic Table Intro:

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 Table Eric R. Scerri, 2011 *The Elements Book* DK, 2017-04-04 Richly illustrated with over a thousand photos and dazzling details of the elements that make up the physical world Written in association with the renowned Smithsonian Institution Does your little chemist have questions about the stuff that everything is made of This visual reference book covers each of the 118 elements and includes a glossy pull out poster of the periodic table This encyclopedia is a superb introduction to the subject of chemistry Written with kids ages 9 to 12 in mind using easy to understand language and straightforward fun facts There s information on the scientists that made the first discoveries and spectacular photos of large natural features along with a simple explanation of what an atom is Find out which of the things we see every day contain these common and unusual elements There s so much to discover about different elements Explore their atomic structure with the number of electrons protons and neutrons and the three states of solid liquid or gas Kids will learn that the copper used in computer motherboards is also what the Statue of Liberty is made of and why it s green Also learn about elements like zinc why Japan s Akashi Bridge is coated in zinc and why zinc is used in the soles of boots to make the rubber tougher Each element is shown in its pure form in a stunning series of photos that will keep children engrossed in elemental science The poster included with this education book is an added learning tool that shows how the elements are arranged on the periodic table It s easier than ever to look up the basics of chemistry From Ac to Xe and all the elements between The multitude of photos in this appealing format makes learning the fundamentals of chemistry simple and enjoyable This visual reference guide provides the reader with an overview of the most fascinating facts about the elements within us and around us Concise and bite sized information makes it easy for young scholars to follow Eye catching and captivating photos of raw elements and what they are used in

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

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

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The Periodic Table Book DK,2017-03-30 This eye popping encyclopedia takes you on a tour of all the world s elements From argon to zinc each and every one of the 118 chemical elements are explored in dazzling detail With the periodic table celebrating its 150th anniversary in 2019 you ll be in your element as you discover the incredible variety of building blocks that make up our Universe and learn the remarkable ways we now use them More than 1 000 photographs showcase the natural forms of each element and the range of everyday and unusual objects where they can be seen This helps children understand exactly where the different elements have found their place in the world The true science behind the elements is explained in properties atomic structure and table position This essential book turns the tables on traditional reference and presents the periodic table as never before to appeal to school children today Included is a giant glossy pull out poster perfect to aid classroom discussions or to dazzle on bedroom walls

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content is aligned to your State Standards and are written to Bloom's Taxonomy and STEM initiatives

Draw the Periodic Table of the Elements from Memory Éric Fontaine, 2013-04 Draw the Periodic Table of the Elements from Memory is written as a study aid for learning about the periodic table of the elements The book begins with an introduction to the structure of the atom and electron orbitals The periodic nature of the table is then discussed and groups of atoms with similar characteristics are identified The book then focuses on drawing the periodic table with its 118 element names and symbols from memory Several memory techniques are used that use full color pictures with easily remembered phrases that help recall the information in the correct position in the table Groups of elements with similar characteristics are memorized together in order to reinforce the periodic nature of the table The blank table on the back cover of the book can be filled in with a wet erase marker to keep track of progress I hope this book will help simplify the once difficult task of remembering this elegant collection of scientific knowledge that is so basic to a science education

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

The Periodic Table Adrian Dingle, Dan Green, 2014 The original Basher Science made even better

Introduction to the Chemistry Ahd Arts, 2020-10-26 Know the periodic table of elements and have more fun We take you on a journey across the periodic table and we help you learn the basics of chemistry through coloring This book introduces the concepts of The Periodic table of element electrons and neutrons Bohr models Orbitals Diatomic elements Covalent bonds Ionic bonds This book makes a perfect gift for a child with an interest in science this book including Element chemical symbols Atomic structure Periodic Table groups and elements Elements appearance 8.5 x 11 inches 22 x 28 cm book

Exploring the Elements Isabel Thomas, 2020 Science meets design in this comprehensive introduction to the chemical elements that make up our universe This artful and accessible guide to the periodic table the ultimate reference tool for scientists worldwide names all 118 chemical elements and helps young readers understand the remarkable ways we have learned to use them Graphically stunning layouts feature each element's letter symbol and atomic number exploring its attributes characteristics uses and interesting stories behind its discovery Complete with a comprehensive introduction conclusion and glossary this is the perfect introduction to chemistry for inquisitive minds

An Introduction to the Periodic Table David Abbott, 1966

Table Manners for Beginners Jim Ross, 2013-07 The Ross Lattner IntuitivChemistry series is different The Ross Periodic Table is a powerful new way to approach the periodic table aimed at high school students in their first chemistry course How does it work Every atom of the main block elements is represented with just three features the atomic core the valence radius and the valence electrons Using only their natural intuitive reasoning students make use of these three features to make accurate predictions of chemical behavior Students

will quickly learn these three simple concepts and apply them to an astonishing number of chemical phenomena Within a few days they will accurately predict and explain the behavior of the elements covered in introductory chemistry courses These concepts will form a strong foundation for all the chemistry you ll teach in high school Your students will gain a level of fluency that is not possible using other approaches As teachers and parents know personal competency is the only reliable foundation for building self esteem and confidence Compatible with the emerging consensus on the nature of science Works with not against students natural cognitive growth Integrates language with learning *Interactive Periodic Table* ,

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