POGIL: Períodic 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.



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:

Reference Table S, Periodic Table, Unit 3 (Chapter 6) Notes, & Chapter 6 in textbook

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?
- 2. What happens to the number of valence electrons as you go from left to right across a period?
- 3. What happens to the number of energy levels as you go down a group on the periodic table?
- 4. What happens to the number of energy levels as you go from left to right across a period?
- 5. 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.
 - a. Look up the atomic radius of CI on Table S: _____
 - b. Why is it possible to show the atomic radius using a Bohr diagram but not by using a Lewis structure?
 - On your Bohr diagram draw an arrow to represent the radius of the Cl atom.
- Define periodic:
- 9. Define trend:

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George Graybill

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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 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 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 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 *Ouiz Yourself Clever! The* Periodic Table DK,2024-10-03 Get to grips with the periodic table with this fact packed guiz book Learn all the ingredients that make up the universe in this guiz book for children aged 9 that breaks down the periodic table Quiz Yourself Clever The Periodic Table goes through all 118 elements in an accessible and kid friendly way showing the pure form of every element through an eve catching image surrounded by quiz style questions This periodic table quiz book for children offers Fast and fun learning through the use of detailed images and interesting facts Hundreds of guick fire guestions for children to guiz themselves and challenge friends and family Information that has been endorsed and authenticated by experts Vivid pictures and fast facts will allow children to gather a wealth of knowledge in a fun way Turn the page to find the answers contained in a handy dataset from its atomic number and mass to its melting point and when it was discovered Images of how it appears in nature and how we use it give a fuller understanding of each element More in the series If you enjoyed Quiz Yourself Clever The Periodic Table then why not test yourself other guiz books to boost your knowledge like Ouiz Yourself Clever Rocks Minerals to get to grips with the fascinating rock and mineral forms all over the world or Animals of the World to learn about the most fascinating wildlife on our planet The HISTORY of the ATOM the PERIODIC TABLE and RADIOACTIVITY Alex Kimmons, 2021-05-15 THE HISTORY OF THE ATOM THE PERIODIC TABLE and RADIOACTIVITY monochrome Chemistry is an interesting and fundamental branch of science because it gives us the chance to explain the secrets of nature What is water What do we use in our cars as fuel What is aspirin What are perfumes made of These kinds of questions and their answers are all part of the world of chemistry There is no industry that does not depend upon chemical substances the petroleum pharmaceuticals garment aircraft steel and electronics industries for example as well as agriculture all utilize the science of chemistry This book helps everyone to understand nature However one does not need to be a chemist or scientist to understand the simplicity within the complexity around us The aim was to write a modern up to date book where students and teachers can get concise information about the structure of substances Sometimes reactions are given in the detailed form but in general excessive detail has been omitted The book is designed to introduce fundamental knowledge in three areas the history of the atom the periodic table and radioactivity We will study the historical development of atomic structure theories the tendencies of elements in periods and groups and the types of emissions and uses of radioactivity Atoms, Molecules & Elements: The Periodic Table Gr. 5-8 George Graybill, 2015-10-01 This is the chapter slice 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 **The Periodic Table** Joshua BishopRoby, 2014-01-01 All students can learn about the periodic table through text written at four different reading levels Symbols on the pages represent reading level ranges to help differentiate instruction Provided comprehension questions complement the text 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 *Elements and the Periodic Table, Grades 5 - 12* Theodore A. Abbqy,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 guizzes 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 Periodic Table. The: Past, Present, And Future Geoff Rayner-canham, 2020-08-04 This is an an absolutely wonderful book that is full of gems about the elements and the periodic table All in all the book is highly recommended to philosophers of chemistry As philosophers we have a natural tendency to concentrate on generalities and not to get too involved in the specifics and the details Above all else this new book reminds us that such an approach needs to be tempered by a detailed knowledge of the exceptions and

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The ^APeriodic Table Eric Scerri,2019-10-21 The Periodic Table Its Story and Its Significance traces the evolution and development of the periodic table from Mendeleev's 1869 first published table and onto the modern understanding provided 150 Years of the Periodic Table Carmen J. Giunta, Vera V. Mainz, Gregory S. Girolami, 2021-07-04 This book provides an overview of the origins and evolution of the periodic system from its prehistory to the latest synthetic elements and possible future additions. The periodic system of the elements first emerged as a comprehensive classificatory and predictive tool for chemistry during the 1860s Its subsequent embodiment in various versions has made it one of the most recognizable icons of science Based primarily on a symposium titled 150 Years of the Periodic Table and held at the August 2019 national meeting of the American Chemical Society this book describes the origins of the periodic law developments that led to its acceptance chemical families that the system struggled to accommodate extension of the periodic system to include synthetic elements and various cultural aspects of the system that were celebrated during the International Year of the Periodic Table **The Periodic Table** Mary Griffin, 2018-12-15 The periodic table is the way scientists have organized the known elements but up and coming scientists can learn much from the periodic table as well Your readers will learn how to read the periodic table including what an element's atomic number means and what the rows and columns signify They ll gather facts about common and interesting elements and even discover how they can predict how elements might chemically react from their position in the table Fact boxes and images add additional information to the accessible text 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

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