

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:

- 1. alkali metals
- 2. alkaline earth metals
- 3. transition metals
- 4. metalloids
- 5. nonmetals
- 6. noble gases
- 7. lanthanide series
- 8. actinide series

The table shows elements from Hydrogen (H) to Oganesson (Og). The lanthanide and actinide series are shown below the main table.

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?
- What happens to the number of valence electrons as you go from left to right across a period?
- What happens to the number of energy levels as you go down a group on the periodic table?
- What happens to the number of energy levels as you go from left to right across a period?
- 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 on Table S: _____
 - 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*:
- Define *trend*:

Periodic Table Pogil Answers Extension Questions

Hussin A.Rothana



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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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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

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& 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 *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 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 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

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Leveled Texts: 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 *Quiz Yourself Clever! Elements* DK,2024-10-22 Get to grips with the elements through fun quizzes The periodic table sets out the humble ingredients of everything in the universe but with 118 elements that s a lot of ingredients to remember This is where Quiz Yourself Clever Elements comes in The pure form of every element on the periodic table is shown via an eye catching image surrounded by quiz style questions Turn the page to find the answers contained in a handy dataset from its atomic number and mass to its melting point and even when it was discovered Images of how it appears in nature and its uses give a fuller understanding of each element You can use the book to test your own knowledge or how about using it to quiz a friend So whether you re studying for exams want to play fun games with friends or you re just curious about the building blocks of everything around you you ll be in your element with this book before you know it

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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 **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 features that go against the simplified generalities which we so cherish Read Full Review Eric Scerri Foundations of Chemistry Many questions are dealt with in a clearly written way in this stimulating and innovative book The reader will quickly become interested in the subject and will be taken on tour through this Periodic Table in a very readable way both for students and teachers The number of illustrations is good and clear This book is indeed unique and quite thought provoking This book is highly recommended for students teachers researchers and not only chemists Geologists biochemist and also physicists will find it very interesting to read Read Full Review Chemistry International That fossilized chart on every classroom wall isn't that The Periodic Table Isn't that what Mendel ev devised about a century ago No and No There are many ways of organizing the chemical elements some of which are thought provoking and which reveal philosophical challenges Where does hydrogen belong Can an element occupy more than one location on the chart Which are the Group 3 elements Is aluminum in the wrong place Why is silver I like thallium I Why is vanadium like molybdenum Why does gold form an auride ion like a halide ion Does an atom know if it is a non metal or metal Which elements are the metalloids Which are the triels So many questions In this stimulating and innovative book the Reader will be taken on a voyage from the past to the present to the future of the Periodic Table This book is unique This book is readable This book is thought provoking It is a multi dimensional examination of patterns and trends among the chemical elements Every reader will discover something about the chemical elements which will provoke thought and a new appreciation as to how the elements relate together **Elements and the Periodic Table, Grades 5 - 12** Theodore A. Abbigy,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 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 S. Abbigy, 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 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 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 Discovery of the Periodic Table of the Chemical Elements** Torsten Schmiermund, 2022 150 years ago in 1869 D I Mendeleev and L Meyer independently published their ideas on the arrangement of the chemical elements in a periodic system The United Nations and UNESCO therefore declared 2019 the International Year of the Periodic Table The question arises what is so special about this simple table Join the author on a short journey to the history of the periodic table Learn about its predecessors and look at how the periodic table of elements has evolved over the years Discover the periodic properties of the elements Learn what makes the periodic table so interesting and timeless and see what other ideas there are and have been for representing it The content Atomic theories atomic structure and atomic masses Early attempts to systematize the elements Mendeleev s periodic table and periodicities of the elements Alternative periodic systems The target groups Students and lecturers of chemistry especially history of chemistry Teachers and students as well as those interested in the history of chemistry The author Torsten Schmiermund has been working as a chemical technician in the chemical industry for many years This book is a translation of an original German edition The translation was done with the help of artificial intelligence machine translation by the service DeepL com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation **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 **Atoms and the Periodic Table** Elizabeth R. Kellerman, 1999-09-01 The activities in this book explain elementary concepts in the study of chemistry including atomic symbols and structure matter and atomic number General background information suggested activities questions for discussion and answers are included *Sorting The Elements* Barber, 2007-08-01 Explores Elements And Atoms Rows And Columns Common Elements Metals And Nonmetals And Elements Into Compounds

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