

Trends on the Periodic Table

Part 1: Identifying chemical properties/characteristics of the elements

For each of the following elements, draw a caricature or cartoon above the description to show its "chemical personality" based on the description provided. (Note: See the Neon example for ideas.)

Lithium
Being one of the smaller elements with only 3 electrons, lithium is happy to give one of its electrons away and never seems to ask for any in return.

Li

Fluorine
One of the smallest elements, Fluorine is often described as snappy with a "magnetic" personality. As part of the halogen family (notorious electron thieves), Fluorine is the best at convincing other elements to give up their electrons to him. However, he holds on tight to his own electrons and will not let them go without a fight.

F



Neon
Part of the Noble family, Neon does not readily interact with other elements. With a full set of valence electrons, Neon feels that he has everything he needs to make him happy without sharing with others.

Francium
Francium is the largest of all of the elements and has so many electrons that it has trouble keeping track of them. Francium will eagerly give up electrons to other elements and never takes in extras. But watch out, it has an extremely reactive and explosive personality!

Fr

Iodine
As part of the halogen family, Iodine is also a skilled electron thief, however, not nearly as good as its smaller brothers and sisters. Iodine will also put up a pretty good fight to keep its own electrons.

I

Part 2: Use your textbook to complete the following:

Atomic Radii Size:

1. Explain **atomic radius**: A measure of the size (volume) of an atom. Determined by measuring half of the distance between two identical atoms bonded together.
2. Using the information in figure 5-13 (pg 141) in your book, **write** the atomic radii size for **alkali metals & period #2** on the periodic table to your right.



3. What happens to atomic radii as you move down a column and across a row? On the arrows on the diagram, indicate the trend. (Options: gets bigger OR gets smaller)

4. Of all the elements on the periodic table, **identify & circle the largest & smallest** in size.

5. Rank the following elements from largest to smallest in atomic radii:

a) Be, Ba, Mg = **Ba, Mg, Be**

b) Li, F, B = **Li, B, F**

6. How can you explain the trend?

a. Why do they get smaller as you go across a period? Additional protons in the nucleus "pull" on electrons, bring the electron cloud closer.

Effective nuclear charge, Z_{eff} , increases the attraction of the nucleus and therefore pulls the electron cloud closer to the nucleus resulting in smaller radii.

not a good enough answer
4AP Answer

Pogil Chemistry Activities Periodic Trends Activities

Brian Rohrig



Pogil Chemistry Activities Periodic Trends Activities:

POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes *Chemical Pedagogy* Keith S Taber, 2024-12-20 How should chemistry be taught in schools colleges and universities *Chemical Pedagogy* discusses teaching approaches and techniques the reasoning behind them and the evidence for their effectiveness The book surveys a wide range of different pedagogic strategies and tactics that have been recommended to better engage learners and provide

more effective chemistry teaching These accounts are supported by an initial introduction to some key ideas and debates about pedagogy the science of teaching Chemical Pedagogy discusses how teaching innovations can be tested to inform research based practice Through this book the author explores the challenges of carrying out valid experimental studies in education and the impediments to generalising study results to diverse teaching and learning contexts As a result the author highlights both the need to read published studies critically and the value of teachers and lecturers testing out recommended innovations in their own classrooms Chemical Pedagogy introduces core principles from research into human cognition and learning to provide a theoretical perspective on how to best teach for engagement and understanding An examination of some of the more contentious debates about pedagogy leads to the advice to seek optimally guided instruction which balances the challenge offered to learners with the level of support provided This provides a framework for discussing a wide range of teaching approaches and techniques that have been recommended to those teaching chemistry across educational levels including both those intended to replace teaching from the front and others that can be built into traditional lecture courses to enhance the learning experience

Chemistry Education in the ICT Age Minu Gupta Bhowon, Sabina Jhaumeer-Laulloo, Henri Li Kam Wah, Ponnadurai Ramasami, 2009-07-21 th th The 20 International Conference on Chemical Education 20 ICCE which had rd th Chemistry in the ICT Age as the theme was held from 3 to 8 August 2008 at Le Meridien Hotel Pointe aux Piments in Mauritius With more than 200 participants from 40 countries the conference featured 140 oral and 50 poster presentations th Participants of the 20 ICCE were invited to submit full papers and the latter were subjected to peer review The selected accepted papers are collected in this book of proceedings This book of proceedings encloses 39 presentations covering topics ranging from fundamental to applied chemistry such as Arts and Chemistry Education Biochemistry and Biotechnology Chemical Education for Development Chemistry at Secondary Level Chemistry at Tertiary Level Chemistry Teacher Education Chemistry and Society Chemistry Olympiad Context Oriented Chemistry ICT and Chemistry Education Green Chemistry Micro Scale Chemistry Modern Technologies in Chemistry Education Network for Chemistry and Chemical Engineering Education Public Understanding of Chemistry Research in Chemistry Education and Science Education at Elementary Level We would like to thank those who submitted the full papers and the reviewers for their timely help in assessing the papers for publication th We would also like to pay a special tribute to all the sponsors of the 20 ICCE and in particular the Tertiary Education Commission <http://tec.intnet.mu> and the Organisation for the Prohibition of Chemical Weapons <http://www.opcw.org> for kindly agreeing to fund the publication of these proceedings

Chemistry Education Javier García-Martínez, Elena Serrano-Torregrosa, 2015-05-04 Winner of the CHOICE Outstanding Academic Title 2017 Award This comprehensive collection of top level contributions provides a thorough review of the vibrant field of chemistry education Highly experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching as well as the pivotal role of chemistry for shaping a more sustainable future Adopting a

practice oriented approach the current challenges and opportunities posed by chemistry education are critically discussed highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them The main topics discussed include best practices project based education blended learning and the role of technology including e learning and science visualization Hands on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively from experience chemistry professors to secondary school teachers from educators with no formal training in didactics to frustrated chemistry students *Conference Proceedings. New Perspectives in Science Education* Pixel,2015 Transforming Urban Education Kenneth Tobin,Ashraf Shady,2014-04-03 Transformations in Urban Education Urban Teachers and Students Working Collaboratively addresses pressing problems in urban education contextualized in research in New York City and nearby school districts on the Northeast Coast of the United States The schools and institutions involved in empirical studies range from elementary through college and include public and private schools alternative schools for dropouts and museums Difference is regarded as a resource for learning and equity issues are examined in terms of race ethnicity language proficiency designation as special education and gender The contexts for research on teaching and learning involve science mathematics uses of technology literacy and writing comic books A dual focus addresses research on teaching and learning and learning to teach in urban schools Collaborative activities addressed explicitly are teachers and students enacting roles of researchers in their own classrooms cogenerative dialogues as activities to allow teachers and students to learn about one another s cultures and express their perspectives on their experienced realities and negotiate shared recommendations for changes to enacted curricula Coteaching is also examined as a means of learning to teach teaching and learning and undertaking research The scholarship presented in the constituent chapters is diverse reflecting multi logicality within sociocultural frameworks that include cultural sociology cultural historical activity theory prosody sense of place and hermeneutic phenomenology Methodologies employed in the research include narratology interpretive reflexive and authentic inquiry and multi level inquiries of video resources combined with interpretive analyses of social artifacts selected from learning environments This edited volume provides insights into research of places in which social life is enacted as if there were no research being undertaken The research was intended to improve practice Teachers and learners as research participants were primarily concerned with teaching and learning and as a consequence as we learned from research participants were made aware of what we learned the purpose being to improve learning environments Accordingly research designs are contingent on what happens and emergent in that what we learned changed what happened and expanded possibilities to research and learn about transformation through heightening participants awareness about possibilities for change and developing interventions to improve learning **Organic Chemistry** Suzanne M. Ruder,The POGIL Project,2015-12-29 ORGANIC CHEMISTRY *Atoms, Molecules & Elements: What Are Compounds?*

Gr. 5-8 George Graybill, 2015-10-01 This is the chapter slice What Are Compounds 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

Explorations in Conceptual Chemistry Jeffrey Paradis, 2006-04 Designed to give readers a conceptual appreciation for chemistry this manual offers a set of hands on activities on topics such as measurement temperature mixtures and solutions The states of matter Phase changes The periodic table Atomic structure Lewis dot structures Intermolecular forces Polymers Naming compounds Chemical reactions Kinetics and Electrochemistry

MARKET For all readers interested in a conceptual appreciation of chemistry

Simply Science, 1997

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

101 Intriguing Labs, Projects, and Activities for the Chemistry Classroom Brian Rohrig, 1999 For many students chemistry seems about as far removed from their every day lives as the moon The labs projects and activities in this book help students make the connections between classroom formula and household reality Topics covered include the scientific method the metric system and density percent composition and the mole atomic structure and the periodic table bonding gases energy acids and bases and chemical reactions Students use a tabloid newspaper to explore the scientific method determine the densities of soft drinks calculate how much the human body is worth figure out how many atoms are in a drop of water explore the chemistry of stain removal attempt to slow the speed of light and much more Includes take home labs

100 Reproducible Activities Joan DiStasio, 2002 A must for any teacher with a can do approach to teaching Chemistry The book includes pages of problems and puzzles on the mole balancing equations gas laws stoichiometry the periodic table and more The lessons can be tailored to any level

Learning about Chemistry Concepts. Superific Science Book VIII. A Good Apple Science Activity Book for Grades 5-8 Lorraine Conway, 1983 Provides instructions for a series of experiments that illustrate the principles of chemistry including the nature of matter atoms and molecules chemical changes and the elements and how they interact

Chemistry Activity Book Jenny Jacoby, 2020-10

Integrated Physics and Chemistry, Chapter 1, Activities Paradigm Accelerated Curriculum, 2005-01-01 Key topics Periodic Table of the Elements money metals nonmetals compounds formulas

atomic weights heat measuring temperatures Robert Boyle Democritus Lavoisier Proust Dalton Rumford IPC consists of twelve chapters of text and twelve companion student activity books This course introduces students to the people places and principles of physics and chemistry It is written by internationally respected scientist author John Hudson Tiner who applies the vignette approach which effectively draws readers into the text and holds attention The author and editors have deliberately avoided complex mathematical equations in order to entice students into high school level science Focus is on the people who contributed to development of the Periodic Table of the Elements Students learn to read and apply the Table while gaining insight into basic chemistry and physics This is one of our most popular courses among high school students especially those who have a history of under performance in science courses due to poor mathematical and reading comprehension skills The course is designed for two high school transcript credits Teachers may require students to complete all twelve chapters for two transcript credits or may select only six chapters to be completed for one transcript credit for Physical Science Physics or Chemistry Compliance with state and local academic essential elements should be considered when specific chapters are selected by teachers As applicable to local policies transcript credit may be assigned as follows when students complete all 12 chapters Physical Science for one credit and Chemistry for one credit or Integrated Physics and Chemistry for two credits May require supplemental local classes labs

Periodic Table For Kids David Soughtout,2024-07-05 Are you worried that the periodic table might be too complex for your child to understand Do you want to make science fun and engaging for them Are you looking for a book that provides educational value while being age appropriate The Periodic Table for Kids is the perfect guide for making the world of chemistry accessible and enjoyable for your little angels This book breaks down the periodic table and its elements into simple engaging and fun content your kids will love What's Inside the Book Understanding the Periodic Table A section dedicated to explaining what the periodic table is how it's organized and why it's important This part simplifies complex concepts with easy to understand language alongside beautiful illustrations History of the Periodic Table Discover the intriguing history behind the periodic table including the scientists who played key roles in its development Learn about their contributions and the exciting discoveries that shaped modern chemistry Everyday Life Applications Explore how elements and simple chemical reactions are part of our daily lives This section includes practical examples that demonstrate the relevance of chemistry to our daily activities And so much more Your child's journey into the fascinating world of chemistry starts with buying this book

The Chemical Elements Coloring and Activity Book Ellen McHenry,2021-08 An advanced coloring book for ages 12 to adult Features coloring pages for each element on the Periodic Table plus an activity section with some word puzzles card games and group activities

Chemical Reactions, Materials and Particles Gill Murphy,2006-03 Specials are a teaching resource designed for KS3 students whose literacy skills are considerably lower than their age These books have an older format to counteract the simple text and cover various topics They include activities visuals and assessment sheets as well as teacher

pages

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