

60 What is the atomic radius of Carbon?

70pm

90 On each table, which element has the smallest atomic radius? What about the largest atomic radius?

Smallest H, N

Largest Rb, Ne

108 For the Group 1 table, what is the general trend of atomic radius vs. position?

Atomic radius increases as you go down group

110 For the Period 2 table, what is the general trend of atomic radius vs. position?

Atomic radius decreases as you move across period

120 Are there any exceptions that you noticed for either of the trends?

Noble gases are significantly larger

130 Speculate with your group why this trend-exception occurs. We will discuss as a class and why this exception occurs.

* Can discuss Van der Waals radius vs. Atomic radius & why Van der Waals radius is used for noble gases

Information: Generally, atomic radius increases as you go down and to the left on the periodic table.

As you go down on the periodic table, the energy level of the outer-most electron increases, which requires the electrons to be further from the nucleus.

As you go further to the right on the periodic table, the energy level of the outer-most electron doesn't change significantly. The effective nuclear charge does steadily increase though, which allows the nucleus to have a stronger force on the outer-most electrons of the atom.

Pogil Ap Chemistry Activities Answers

Sibel Erduran



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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

Argumentation in Chemistry Education Sibel Erduran, 2022-06-29 Scientists use arguments to relate the evidence that they select from their investigations and to justify the claims that they make about their observations This book brings together leading researchers to draw attention to research policy and practice around the inclusion of argumentation in chemistry education

Flipped Learning for

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POGIL Activities for AP* Chemistry Flinn Scientific, 2014

Selected Activities from Foundations of Chemistry David Hanson, 2017-07-25

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Flinn Scientific Advanced Inquiry Labs for AP Chemistry* Flinn Scientific, 2013

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