

POGIL: Atomic Models and the Development of the Atom

Background:

Models are used in science as a way to represent what we cannot see. They help us work with, visualize, and understand scientific concepts. However, models are constantly changing as we develop new technology and continue to make advancements. We are going to study the atom in this unit, and it is important to learn about the process of developing our most current model.

Model 1: Dalton

Dalton came up with the theory that described atoms in five postulates, meaning, a set of concepts or theories proposed by scientists. Dalton used experimentation to develop his postulates through testing gases. He first differentiated atoms via atomic weight. His data was flawed, however, but he is known as the father of atomic theory due to his immense strides in this topic. His five postulates are listed below:

1. All elements are composed of tiny indivisible particles called atoms that cannot be broken down further. *
2. Atoms of a given element are all similar in their physical and chemical properties.
3. Atoms of different elements differ in their physical and chemical properties.
4. Atoms of different elements combine in simple, whole number ratios to form compounds.
5. In chemical reactions, atoms are combined, separated, or rearranged, but never created, destroyed, or changed.

*Indicates that the postulate is still held as true today.

Dalton's model summarizes these principles by showing that an atom is made up of solid, indivisible particles. This was originally stated by Greek philosopher Democritus, and he called the indivisible particle *atomos* (which means indivisible). However, Democritus did not have any support for his claim.

Dalton's model of the atom



Key Content Questions:

Atomic Model Pogil Answer

Charles Adolphe Wurtz

Atomic Model Pogil Answer:

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 **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 **Organic Chemistry** Suzanne M. Ruder,The POGIL Project,2015-12-29 ORGANIC CHEMISTRY *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 Cooperative Learning in Higher Education Barbara Millis, 2023-07-03 Research has identified cooperative learning as one of the ten High Impact Practices that improve student learning If you've been interested in cooperative learning but wondered how it would work in your discipline this book provides the necessary theory and a wide range of concrete examples Experienced users of cooperative learning demonstrate how they use it in settings as varied as a developmental mathematics course at a community college and graduate courses in history and the sciences and how it works in small and large classes as well as in hybrid and online environments The authors describe the application of cooperative learning in biology economics educational psychology financial accounting general chemistry and literature at remedial introductory and graduate levels The chapters showcase cooperative learning in action at the same time introducing the reader to major principles such as individual accountability positive interdependence heterogeneous teams group processing and social or leadership skills The authors build upon and cross reference each others chapters describing particular methods and activities in detail They explain how and why they may differ about specific practices while

exemplifying reflective approaches to teaching that never fail to address important assessment issues [Choice](#),2009
The Atomic Theory Charles Adolphe Wurtz,1899 *The Atomic Theory* Charles Adolphe Wurtz,2004-11-11 **The Atomic Theory** Adolphe Wurtz,1880 [Atomic Theory](#) Arthur Erich Haas,1927 **On the Atomic Theory** Alexander William Williamson,1869 **An Introduction to the Atomic Theory. Supplement ... Comprehending a Sketch of Certain Opinions and Discoveries Bearing Upon the General Principles of Chemical Philosophy** Charles Giles Bridle Daubeny,1840 **The Atomic Theory** Charles Adolphe Wurtz,1998 *An Introduction to the Atomic Theory* Charles Daubeny,1850 *Models of Reality for Static, Nuclei and Atoms* J. Alden Erikson,2005-06 Inside this little book you can learn how physical nuclear and atomic models were found that relate to the physics and chemistry of atoms based on their shape and intrinsic structures You can see how it all begins with an icosahedral carbon atom which explains its bond angles hybridization and can be used to build up and down to develop key elements related to Bohr s ground state toms valence quantum mechanics and ultimately the chemistry and physics of particle formed nuclei and atoms The work is in its infancy and opportunity awaits those who will believe that complete knowledge of all the atoms in the periodic tables will be determined by nuclei and the location of electrons in the nucleus in atomic orbitals around the nucleus or in molecular orbitals in compounds Here is an opportunity for the scientific community to proceed with great imagination and understanding in extending everyone s knowledge as we would like to know it **The Atomic Theory** Joseph John Thomson,1914 **Recent Developments in Atomic Theory** Leo Graetz,2014-05-09 Into the short compass of this book Professor Graetz has succeeded in compressing an eminently readable survey of the directions in which the atomic theory as accepted in the nineteenth century has been extended by the remarkable and almost revolutionary physical investigations and discoveries of the two decades preceding the book s original publication in 1923 **Historical Studies in the Theory of Atomic Structure** J. L. Heilbron,1966 [The Evolution of the Atomic Theory](#) David P. Mellor,1971 **An Introduction to the Atomic Theory, Comprising a Sketch of the Opinions Entertained by the Most Distinguished Ancient and Modern Philosophers with Respect to the Constitution of Matter** Charles Daubeny,1831

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