

Name: Answer Key Date: _____ Period: _____
POGIL: INTRODUCTION TO CHEMISTRY

Model 1: Atomic Structure

Why?

Atoms make up everything around us—from the food on our plate to the materials that make up buildings. How do we know what to make those substances out of? How do we know what nutrients are in our food? The answer is that we know about the properties of the atoms that make them up. In order to get to that point, we must first understand the composition of atoms and how to determine that based upon the information provided to us on the periodic table.

Particle	Symbol	Relative Charge	Absolute Mass	Relative Mass	Location in the atom
Electron	e^-	-1	9.109×10^{-31} kg	0	Electron Cloud
Proton	p^+	+1	1.673×10^{-27} kg	1	Nucleus
Neutron	n^0	0	1.675×10^{-27} kg	1	Nucleus

Memory Clues:

Protons: Positive

3 N's for Neutrons: Neutrons, Neutral, Nucleus

1. A quantum model of the atom is a drawing that represents the nucleus and the electron cloud. Draw the quantum model of the atom, labeling the three subatomic particles described above and labeling the name of their location.



2. What do you notice about the relative mass of the proton and neutron? What about the electron?
They are the same mass for the proton and neutron. ^{above} The mass of the electron is much smaller.

Since the masses of the subatomic particles are so small, we use another unit to discuss their mass: atomic mass unit (amu). One amu is the mass of a proton. In this way, we can discuss and use the masses of protons (which, relatively speaking, is the same as the mass of a neutron) to determine the atomic mass of a particular atom. The atomic mass is the total number of protons + neutrons in the nucleus of the atom. The atomic mass is the average of all of the masses of the different isotopes of elements (isotopes will be discussed later).

3. Is the mass of an electron taken into account for the atomic mass? Why or why not?
NO → it is too small to be significant
4. 1 amu is equivalent to how many protons?

$$1 \text{ amu} = 1 \text{ proton}$$

Pogil Atomic Structure

Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Pogil Atomic Structure:

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

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 M ridien 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 Richard S. Moog, John J. Farrell, 2014-01-13 Chemistry A Guided Approach 6th Edition follows the underlying principles developed by years of research on how readers learn and draws on testing by those using the POGIL methodology This text follows inquiry based learning and correspondingly emphasizes the underlying concepts and the reasoning behind the concepts This text offers an approach that follows modern cognitive learning principles by having readers learn how to create knowledge based on experimental data and how to test that knowledge

Organic Chemistry Suzanne M. Ruder, The POGIL Project, 2015-12-29 ORGANIC CHEMISTRY

Advances in Teaching Physical Chemistry Mark David Ellison, 2008 This book brings together the latest perspectives and ideas on teaching modern physical chemistry It includes perspectives from experienced and well known physical chemists a thorough review of the education literature pertaining to physical chemistry a thorough review of advances in undergraduate laboratory experiments from the past decade in depth descriptions of using computers to aid student learning and innovative ideas for teaching the fundamentals of physical chemistry This book will provide valuable insight and information to all teachers of physical chemistry

The Atom Jack Challoner, 2018 Until now popular science has relegated the atom to a supporting role in defining the different chemical

elements of the periodic table This bold new title places its subject center stage shining the spotlight directly onto the structure and properties of this tiniest amount of anything it is possible to identify The book covers a huge range of topics including the development of scientific thinking about the atom the basic structure of the atom how the interactions between atoms account for the familiar properties of everyday materials the power and mystery of the atomic nucleus and what the mysterious quantum realm of subatomic particles and their interactions can tell us about the very nature of reality Sparkling text banishes an outdated world of dull chemistry as it brightly introduces the reader to what everything is made of and how it all works on the most fundamental level

Atomic Theory Arthur Erich Haas,1927 Atomic and Molecular Structure Joel Chaffee,2011-01-15 Learn about the atom what it is the people responsible for helping us understand it and how it affects us in the world today Atomic Structure and Lifetimes Lorenzo J. Curtis,2003-10-30 This book presents a new approach to introductory graduate courses on atomic structure The author s approach utilizes conceptually powerful semiclassical modeling methods and demonstrates the degree to which the Maslov indexed EBK quantization elucidates the quantum mechanical formulation of level energies and lifetimes It merges this with an update and extension of semiempirical data systematizations developed by Bengt Edl n to describe complex atoms and adapts them to include the specification of lifetimes The text emphasizes the historical basis of the nomenclature and methodologies of spectroscopy However interaction mechanisms are presented deductively based on quantum mechanical and field theoretical models rather than tracing their indirect paths of discovery Many worked examples provide applications to areas such as astrophysics hyperfine structure and coherent anisotropic excitation The book presents a firm foundation for specialists in atomic physics as well as a capstone application for specialists in astrophysics chemistry condensed matter and other related fields Splitting the Atom Alan Morton,2005 This fabulous new series takes key scientific developments from the last century and investigates how they came about their creation or discovery and their long term effects Each book places the development in the context of its time to increase awareness of some of the amazing discoveries that have helped to shape the world today and the key people behind each of these scientific milestones Splitting the Atom investigates the theories and practical developments that led to the turning point in nuclear science the realisation that splitting the nucleus of an atom created energy that could be harnessed for good and for ill

Atomic Structure Colm T. Whelan,2018-05-03 A knowledge of atomic theory should be an essential part of every physicist s and chemist s toolkit This book provides an introduction to the basic ideas that govern our understanding of microscopic matter and the essential features of atomic structure and spectra are presented in a direct and easily accessible manner Semi classical ideas are reviewed and an introduction to the quantum mechanics of one and two electron systems and their interaction with external electromagnetic fields is featured Multielectron atoms are also introduced and the key methods for calculating their properties reviewed

Atoms and Rays Sir Oliver Lodge,1924 Introduces the National Academy Press created by the National Academy of Sciences to publish the reports issued by the

National Academy of Sciences the National Academy of Engineering the Institute of Medicine and the National Research Council Includes information about the Joseph Henry Press on line books and executive summaries copyright permission requests and ordering procedures **POGIL Activities for AP* Chemistry** Flinn Scientific,2014 *Atomic Structure* Rebecca L. Johnson,2007-08-01 Tells the story of how scientists unlocked the secrets of the atom and revolutionized the way we look at the world around us *Elementary Atomic Structure* Gordon Kemble Woodgate,1980 This text on atomic structure is intermediate in level between purely introductory general texts on modern physics and advanced specialized treatises It is short enough to be read in the time normally devoted to atomic structure in physics degree courses Throughout the book real life examples from atomic spectroscopy are discussed alongside the exposition of the theory both to give a feeling for orders of magnitude and to impart a real understanding of the application of elementary quantum mechanics

Historical Studies in the Theory of Atomic Structure J. L. Heilbron,1966 **Atomic Structure and Chemical Bonding, a Non-mathematical Introduction** Fritz Seel,1963 *Basics of Atomic Structure* Cybellium Ltd,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com The Development of Chemistry, 1789-1914: The atomic theory David M. Knight,1998 **Chemistry and Atomic Structure** Jd Main Smith,2023-07-18 This book is an introduction to the chemistry of atomic structure It covers the basic principles of atomic theory including the nature of atoms chemical bonds and chemical reactions The author provides clear explanations of complex concepts making this book accessible to students and non experts alike Anyone interested in chemistry or atomic theory will find this book a useful resource This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

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