

Name _____

BONDING



Directions: Use the chart below and your periodic table to answer the questions that follow.

PART I: COMPARING ELEMENTS

Group One and Group Two both show different compounds made by bonding different elements together. There are two types of bonding in food science, as shown in these two groupings. Let's take a closer look at the elements in each compound to see what makes a compound IONIC or COVALENT.

IONIC BONDS	COVALENT BONDS
NaCl (Sodium Chloride)	H ₂ O (Dihydrogen Monoxide)
MgO (Magnesium Oxide)	CH ₄ (Methane)
Li ₂ O (Lithium Oxide)	CO ₂ (Carbon Dioxide)
KF (Potassium Fluoride)	HF (Hydrofluoric Acid)
FeBr ₃ (Iron III Bromide)	NH ₃ (Ammonia)
CaCl ₂ (Calcium Chloride)	NO ₂ (Nitrogen Dioxide)
NiI ₂ (Nickel Iodide)	C ₆ H ₁₂ O ₆ (Glucose)
BaS (Barium Sulfide)	CF ₄ (Carbon Tetrafluoride)

1. List out the FIRST element in each of the GROUP ONE compounds.
2. What do you notice about the FIRST element that makes up each compound in GROUP ONE?
3. What side of the periodic table do you find these FIRST elements on?
4. List out the SECOND element in each of the GROUP ONE compounds.
5. What do you notice about the SECOND element that makes up each compound in GROUP ONE?
6. What side of the periodic table do you find these SECOND elements on?

BIG IDEA #1: When a _____ and a _____ come together, they make an IONIC BOND.

7. What do you notice about ALL of the elements in GROUP TWO?
8. What side of the periodic table do you find ALL of these elements on?

Ionic Bonding Pogil

**James M. Postma, Julian Roberts, J.
Leland Hollenberg**



Ionic Bonding Pogil:

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

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

Russian Journal of Coordination Chemistry, 1998 *Chemical Bonding* Kok Koon Leong, 2021-05-03 This book introduces the principles behind chemical bonding to teenagers between the ages of fifteen to seventeen Topics covered include ionic bonding covalent bonding and metallic bonding

Atoms & Chemical Bonding Science Learning Guide NewPath Learning, 2014-03-01 The Atoms Atomic Configuration Chemical Bonding Ionic Bonding Ionic Compounds Covalent Bonding Covalent Compounds Naming Compounds and Metallic Bonding Aligned to Next Generation Science Standards NGSS and other state standards [Ionic Bonding](#), 2006 *Chemical Bonding* M.S. Sethi & M. Satake, 2010 Contents Chemical Bonding I Basic Concepts Chemical Bonding II Additional Aspects Intermolecular Force and Crystal Structures

Ionic Compounds Claude H. Yoder, 2006-10-06 A practical introduction to ionic compounds for both mineralogists and chemists this book bridges the two disciplines It explains the fundamental principles of the structure and bonding in minerals and emphasizes the relationship of structure at the atomic level to the symmetry and properties of crystals This is a great reference for those interested in the chemical and crystallographic properties of minerals

The Chemical Bond in Inorganic Chemistry Ian David Brown, 2002 This book describes the bond valence model a description of acid base bonding which is becoming increasingly popular particularly in fields such as materials science and mineralogy where solid state inorganic chemistry is important Recent improvements in crystal structure determination have allowed the model to become more quantitative Unlike other models of inorganic chemical bonding the bond valence model is simple intuitive and predictive and can be used for analysing crystal structures and the conceptual modelling of local as well as extended structures This is the first book to explore in depth the theoretical basis of the model and to show how it can be applied to synthetic and solution chemistry It emphasizes the separate roles of the constraints of chemistry and of three dimensional space by analysing the chemistry of solids Many applications of the model in physics materials science chemistry

mineralogy soil science surface science and molecular biology are reviewed The final chapter describes how the bond valence model relates to and represents a simplification of other models of inorganic chemical bonding

Inner Forces: Ionic Bonding, 1997 [Chemistry](#) Richard S. Moog, John J. Farrell, 2017-06-26 In the newly updated 7th Edition Chemistry A Guided Inquiry continues to follow the underlying principles developed by years of extensive research on how students learn and draws on testing by those using the POGIL methodology This text follows the principles of inquiry based learning and correspondingly emphasizes underlying chemistry concepts and the reasoning behind them This text provides an approach that follows modern cognitive learning principles by having students learn how to create knowledge based on experimental data and how to test that knowledge

Ionic Bonding Curriculum Unit Mary Frank Lamar, 2020 *Thermodynamics of Ionic Bonding with Crown Ethers in Aqueous Solution* Stephen W. Adams, 2021 *The Chemical Bond in Inorganic Chemistry* I. David Brown, 2016-09-29 The bond valence model a description of acid base bonding is widely used for analysing and modelling the structures and properties of solids and liquids Unlike other models of inorganic chemical bonding the bond valence model is simple intuitive and predictive and is accessible to anyone with a pocket calculator and a secondary school command of chemistry and physics This new edition of The Chemical Bond in Inorganic Chemistry The Bond Valence Model shows how chemical properties arise naturally from the conflict between the constraints of chemistry and those of three dimensional space The book derives the rules of the bond valence model as well as those of the traditional covalent ionic and popular VSEPR models by identifying the chemical bond with the electrostatic flux linking the bonded atoms Most of the new edition is devoted to showing how to apply these ideas to real materials including crystals liquids glasses and surfaces The work includes detailed examples of applications and the final chapter explores the relationship between the flux and quantum theories of the bond

Ionic Bonds and Compounds Roberts, 1997-02-01 **The New Theory of Chemical Bonding and Chemical Kinetics** V. I. Gantmakher, 1991 **Ionic and Covalent Bonding** James M. Postma, Julian Roberts, J. Leland Hollenberg, 2000-01-15 [Chemical Bonding](#) Source Wikipedia, 2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 157 Chapters Covalent bond Hydrogen bond Chemical bond Intermolecular force Electronegativity Ionic bond Pauli exclusion principle Molecular orbital Metallic bond Disulfide bond Atomic orbital Dipolar bond Ligand Peptide bond Van der Waals force Mesomeric effect Electron counting Cooperative binding Covalent radius Aromaticity Hypervalent molecule Halogen bond Quantum mechanical explanation of intermolecular interactions Molecular orbital diagram Radical Hyperconjugation Resonance Polyhedral skeletal electron pair theory Orbital hybridisation Electron affinity Crystal field theory Anodic bonding Ruggero Santilli Salt bridge Non innocent ligand Chemical polarity Lewis structure Valence Valence electron Quintuple bond Coordination geometry Bonding in solids Walsh diagram Hapticity 18 Electron rule Electrovalency Ligand field theory Conjugated system Lennard Jones potential Bent's rule Inert pair effect Atoms in molecules Cation pi interaction Jahn Teller effect Dihydrogen complex Valence bond

theory Bent bond Morse potential Hydrophobic effect Stacking Lanthanide contraction Formal charge Octet rule Entropic force London dispersion force Slater's rules Coordination number Metal ligand multiple bond Auophilicity Linear combination of atomic orbitals molecular orbital method Agostic interaction Inductive effect Electron localization function Intercalation Double bond rule Bond valence method Wafer bonding Pyramidal alkene Bound state Catch bond Cooperativity Metal aromaticity Three center four electron bond Sextuple bond Chemical bonding model Antibonding Sigma bond Denticity Pi bond Noncovalent bonding Cubical atom Dihydrogen bond Hydrophile D block contraction Chemical change Delocalized electron Linkage isomerism Keating Model **General, Organic, and Biological Chemistry** Michael P.

Garoutte, 2014-02-24 Classroom activities to support a General Organic and Biological Chemistry text Students can follow a guided inquiry approach as they learn chemistry in the classroom General Organic and Biological Chemistry A Guided Inquiry serves as an accompaniment to a GOB Chemistry text It can suit the one or two semester course This supplemental text supports Process Oriented Guided Inquiry Learning POGIL which is a student focused group learning philosophy of instruction The materials offer ways to promote a student centered science classroom with activities The goal is for students to gain a greater understanding of chemistry through exploration

Ionic Bonding Pogil: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. Ionic Bonding Pogil : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Ionic Bonding Pogil : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Ionic Bonding Pogil

1. Understanding the eBook Ionic Bonding Pogil
 - The Rise of Digital Reading Ionic Bonding Pogil
 - Advantages of eBooks Over Traditional Books
2. Identifying Ionic Bonding Pogil
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ionic Bonding Pogil
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ionic Bonding Pogil
 - Personalized Recommendations
 - Ionic Bonding Pogil User Reviews and Ratings
 - Ionic Bonding Pogil and Bestseller Lists
5. Accessing Ionic Bonding Pogil Free and Paid eBooks
 - Ionic Bonding Pogil Public Domain eBooks
 - Ionic Bonding Pogil eBook Subscription Services
 - Ionic Bonding Pogil Budget-Friendly Options
6. Navigating Ionic Bonding Pogil eBook Formats
 - ePub, PDF, MOBI, and More
 - Ionic Bonding Pogil Compatibility with Devices
 - Ionic Bonding Pogil Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ionic Bonding Pogil
 - Highlighting and Note-Taking Ionic Bonding Pogil
 - Interactive Elements Ionic Bonding Pogil
8. Staying Engaged with Ionic Bonding Pogil

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ionic Bonding Pogil
- 9. Balancing eBooks and Physical Books Ionic Bonding Pogil
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ionic Bonding Pogil
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ionic Bonding Pogil
 - Setting Reading Goals Ionic Bonding Pogil
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ionic Bonding Pogil
 - Fact-Checking eBook Content of Ionic Bonding Pogil
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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