

16. Given the chemical formula of an ionic compound, list at least three necessary steps to give the correct name of that compound. (If needed, use a chemical formula of a compound from the table above as an example in listing the naming steps.)

CHEMICAL BONDING POGIL

Activity 4 – Predicting the correct chemical formula for ionic compounds formed from simple anions

Objective:

- To learn how to predict the correct number of cations and anions in a simple salt.

The Model:

Table 3

Cation	Anion	Chemical Formula	Compound Name
Na^+	Cl^-	NaCl	sodium chloride
Zn^{2+}	Cl^-	ZnCl_2	zinc chloride
Na^+	S^{2-}	Na_2S	sodium sulfide
K^+	N^{3-}	K_3N	potassium nitride

Evaluating the Model:

1. What is the charge on the zinc ion?
2. What is the charge on the nitride ion?
3. What is the charge on the chloride ion?
4. What is the charge on the ionic compound, sodium chloride?
5. What is the charge on the ionic compound, sodium sulfide?
6. How many potassium ions are present in K_3N ?
7. What does the "2" stand for in the formula for ZnCl_2 ?

Exploring the Model:

8. Sodium chloride is NaCl , and zinc chloride is ZnCl_2 . Why are there more chloride ions in the zinc compound?
9. Sodium chloride is NaCl , and sodium sulfide is Na_2S . Why are there more sodium ions in the sulfide compound?

Answers Chemical Bonding Pogil

Sambhu N Datta



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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

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

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Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more

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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

Choice, 2009

Chemists' Guide to Effective Teaching Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for 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

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Chemical Bonding and the Geometry of Molecules George E. Ryschkewitsch, 1963

Chemical Bonding Audrey L. Companion, 1979

The Chemical Bond Gernot Frenking, Sason Shaik, 2014-06-13 This is the perfect complement to *Chemical Bonding Across the Periodic Table* by the same editors who are two of the top scientists working on this topic each with extensive experience and important connections within the community The resulting book is a unique overview of the different approaches used for describing a chemical bond including molecular orbital based valence bond based ELF AIM and density functional based methods It takes into account the many developments that have taken place in the field over the past few decades due to the rapid advances in quantum chemical models and faster computers

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Lectures On Chemical Bonding And Quantum Chemistry Sambhu N Datta, 2019-02-25 The concept of a chemical bond evolved from a variety of experimental observations It became useful to understand at times even predict the molecular structure reactivity and mechanism of chemical reactions Every aspect of the concept of bonding received a quantitative interpretation from the advent of quantum mechanics and its application to chemistry In *Lectures on Chemical Bonding and Quantum Chemistry* the reader will find a comprehensive discourse on the basic interpretation of the chemical bond as well as current understanding in terms of a dancing molecule that not only travels rotates and pulsates around an equilibrium molecular structure but also interacts and collides with other molecules thereby transferring linear and angular momentum characteristics and adjusting total energies

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Chemistry of Chemical Bonding R. K. Sharma,2007

Chemical Bonding Clarified Through Quantum Mechanics George C. Pimentel,Richard D. Spratley,1969

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