

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?

Answers Chemical Bonding Pogil

Marcel A. Müller



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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 Foundations of Inorganic Chemistry** Gary Wulfsberg, 2017-11-02

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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

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