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7.7 - Naming Binary Ionic Compounds

1st Read - Define the following vocabulary terms

Ionic Compound	
Cation	
Anion	
Ion	

2nd Read - Reading for Understanding

DO YOU KNOW THE PROPER NAME FOR THIS INSECT?

How does the importance of precise naming in medicine and biological classification compare to the importance of precise naming in binary ionic compounds?

BINARY IONIC COMPOUNDS

How does the naming of the metal part of a binary ionic compound differ from the naming of the non-metallic part of the compound?

Why is it necessary to indicate the number of ions in a binary ionic compound name?

Name each of the following compounds listed... NaBr ~ MgCl₂ ~ CaO ~ CuBr₂

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7.8 - Formulas for Binary Ionic Compounds

1st Read - Define the following vocabulary terms

Non-metal	
Metal	
Chemical Formula	

2nd Read - Reading for Understanding

HOW DOES SHORTHAND WORK?

How does the use of shorthand in dictation compare to the use of chemical symbols by chemists in terms of efficiency and clarity?

WRITING FORMULAS FOR BINARY IONIC COMPOUNDS

How do you determine the correct chemical formula for a binary ionic compound if the charges on the ions are not equal in magnitude?

What are the key steps of the crisscross method for writing the formula of an ionic compound and why is it necessary to reduce the formula to its lowest ratio?

Why must ionic compound formulas be written using the lowest ratio of ions?

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7.11 - Binary Molecular Compounds - Naming & Formulas

1st Read - Define the following vocabulary terms

Substance	
Valence Electron	
Molecular Formula	

2nd Read - Reading for Understanding

WHY DO SO MANY RELATIVES IN ROYALTY SHARE THE SAME NAME?

How is the use of numbering in royal names (James Bob III) similar to the use of empirical formulas for ionic compounds, and why does this system add clarity?

MOLECULAR COMPOUNDS

How do covalent compounds differ from ionic compounds in terms of the bonding and structure of their atoms?

NAMING BINARY MOLECULAR/COVALENT COMPOUNDS

How does the naming system for binary molecular compounds differ from that of ionic compounds, what do the prefixes indicate in molecular compound nomenclature?

What are the rules for using prefixes when naming binary molecular compounds, and how does the use of prefixes help distinguish between different compounds formed by the same elements?

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9.3 - Molecular Compounds

1st Read - Define the following vocabulary terms

Covalent Compounds	
Atom	
Molecular Formula	

2nd Read - Reading for Understanding

INTRODUCTORY READING

Why is methane, a covalent compound consisting only of carbon and hydrogen, commonly used as fuel in gas stoves?

COVALENT COMPOUNDS: PROPERTIES, NAMING & WRITING FORMULAS

How do covalent bonds hold covalent compounds together, and what is the role of valence electrons in this process?

What are the key rules for naming simple covalent compounds, and how are prefixes used in the naming process?

How do covalent bonds affect the physical properties of covalent compounds, such as boiling points and electrical conductivity?