		Bonding	Page: 256	
Big Ideas	Details		Unit: Nomenclature & Formulas	
	Bonding			
	Unit: Nomenclature 8	& Formulas		
	MA Curriculum Frameworks (2016): HS-PS2-6			
	Mastery Objective(s): (Students will be able to)			
	 Explain how atoms bond together to form compounds. 			
	Identify different types of chemical bonds.			
	Success Criteria:			
	 Explanations account for sharing or transfer of electrons. 			
	Tier 2 Vocabulary: bond			
	Language Objectives:			
	 Explain what hat 	ppens with electrons in or	der to form chemical bonds.	
	Notes:			
	bonding: any joining together of atoms or molecules			
	chemical bond or intramolecular bond: a strong bond between atoms or individual ions, resulting from the sharing or transfer of electrons			
	intermolecular bond: a weak bond between molecules or ions, which holds the molecules of a liquid or solid together. (We will study these in more detail later in the section on "Intermolecular Forces" on page 313.)			
	ion: an atom or group lost electrons.	o of atoms that has a charg	e, because it has either gained or	
	Use this space for sun	nmary and/or additional no	otes:	

Big Ideas Details Unit: Nomenclature Types of Chemical Bonds ionic bond: when a positive ion and a negative ion are held together by the electrical attraction of their charges. • ionic bonds occur between ions, usually between a metal ion and metal ion. • the positive ion (cation) is always either the ion of a metal or a pupolyatomic ion. • the negative ion (anion) is always either the ion of a nonmetal or polyatomic ion. • the difference between the electronegativity of the nonmetal an electronegativity of the metal (ΔX) is usually ≥ 1.7. (This will be a further in the section on "Intermolecular Forces" on page 313.) covalent bond: when two atoms form a bond by sharing ("co-") their val valent") electrons.	e & Formulas the d a non- positive r a negative
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