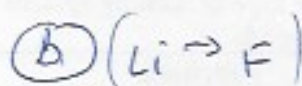
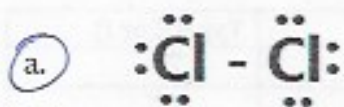


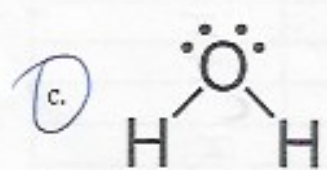
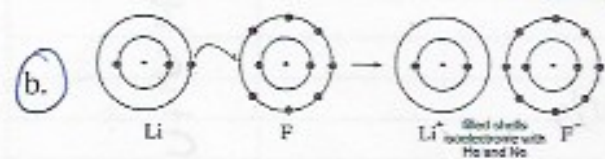
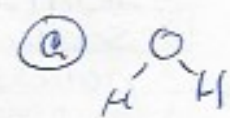
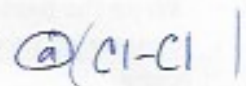
3. Students will be able to characterize an ionic compound as ionic crystal and covalent compounds as molecules, including properties of each as a result.

Use a T Chart to divide the properties into the correct side (or on both sides):

	Ionic	Both	Covalent
e <sup>-</sup> shared			e <sup>-</sup> shared
e <sup>-</sup> transferred	e transferred	Bond uses val. e <sup>-</sup>	use "di" "tetra"
formulas always simplest ratio	formulas always simplest ratio		alkane, alkenes, alkynes
cation is named 1 <sup>st</sup> , anion 2 <sup>nd</sup>	cation 1 <sup>st</sup> , anion 2 <sup>nd</sup>	uses Coulombic forces of attraction	
bond uses valence e <sup>-</sup>	charge = 0		
uses prefixes like "di" and "tetra"	salt		
alkanes, alkenes and alkynes			molecule
have overall charges that = 0			bonds within polyatomic
salt	bond using whole polyat. ion		2 nonmetals bonded
molecules	metal-nonmetal bond		
bonds using (whole) polyatomic ions	opposite charges attract		
bonds within polyatomic ions			
2 nonmetals bonded			
metal and nonmetal bonded			
opposite charges attract			
uses Coulombic forces of attraction			
Mg(OH) <sub>2</sub>		Mg(OH) <sub>2</sub>	
CO <sub>2</sub>			CO <sub>2</sub>
Zn <sub>3</sub> P <sub>2</sub>	Zn <sub>3</sub> P <sub>2</sub>		
NH <sub>4</sub> <sup>+1</sup>		NH <sub>4</sub> <sup>+1</sup>	



d. sodium → chloride



2 major differences between Ionic + Covalent

transfer e<sup>-</sup> | share e<sup>-</sup>  
bond between metal/nm | bond between 2 nonmetals