Name:		Date:	EURBAN EASSEMBLY
<b>Chemistry</b> ~ Ms. Hart	<u>Class:</u>	Anions or Cations	SCHOOL FOR CRIMINAL IUSTICE

## 5.7 Characteristics of Ionic vs. Covalent vs. Metallic

Characteristics of Ionic vs. Covalent vs. Metallic Compounds				
Characteristics	Ionic Compound	Covalent Compound	Metallic Compound	
Representative				
Unit				
Bond Formation				
Type of Elements				
In Compound				
Physical State				
Melting Point				
Solubility in Water				
Electrical				
Conductivity				

- 1. A white crystalline salt conducts electricity when it is melted and when it is dissolved in water. Which type of bond does this salt contain?
- 1) Ionic bonds
- 2) Metallic bonds
- 3) Covalent bonds
- 4) It cannot be determined
- 2. A sample of green gas is most likely to be a compound that contains:
- 1) Ionic bonds
- 2) Metallic bonds
- 3) Covalent bonds
- 4) It cannot be determined
- 3. A purple crystal is found. This substance is likely to contain bonds that are:
- 1) Ionic bonds
- 2) Metallic bonds
- 3) Covalent bonds
- 4) It cannot be determined
- 4. You look at a sample of a solid under a microscope and see what appear to be a completely random structure
- 1) Ionic bonds
- 2) Metallic bonds
- 3) Covalent bonds
- 4) It cannot be determined
- 5. Which compound will likely have the lowest melting point?
- 1) I<sub>2</sub>
- 2) LiCl
- 3) Na<sub>2</sub>0
- 4)  $MgF_2$