Unit Study Guide - Chemical Bonding - Honors

By the end of this unit, you should achieve these learning targets:

Learning Target	How am I doing with this? Write down evidence!
I can identify the types of elements that	
undergo metallic, ionic, and covalent	
bonding.	
I can explain and/or draw a diagram of what	
metallic bonding looks like on the particle	
level.	
I can explain why metallic bonding leads to	
properties of metals such as:	
- Conductivity	
- Malleability	
- Ductility	
I can draw an electron dot diagram for a	
single element by memorizing # of valence	
electrons of each periodic group.	
I can draw an electron dot diagram showing	
the transfer of electrons in ionic compounds.	
I can explain the properties of ionic	
compounds at the particle level such as:	
- Solubility	
- Conductivity	
- Brittleness	
I can explain the "ion effect" with the	
correlation of ions produced to conductivity	
level.	
I can identify a structural formula unit of an	
ionic compound from the formula or the	
crystal lattice structure.	
I can explain why ionic compounds conduct	
electricity in solution, but not as a solid.	

10-15% of this exam may consist of questions and topics from previous unit exams:

- Unit 1 Fundamentals of Chemistry
- Unit 2 Atomic Structure and Nuclear Chemistry
- Unit 3 Electrons and Energy
- Unit 4 Periodic Table and Nomenclature