Worksheet D: Bonding Introduction

- 1. What type of atoms combine to form a covalent bond?
- 2. What type of atoms combine to form a ionic bond?
- 3. What type of atoms combine to form a metallic bond?
- 4. Give two examples of a covalent compounds?
- 5. Give two examples of a ionic compounds?
- 6. Give two examples of a metallic compounds?
- 7. Describe how a covalent bond forms between two atoms.
- 8. How does a covalent bond differ from an ionic bond?
- 9. _____is defined as the energy required to break the chemical bond between two atoms and separate them.
- 10. _____ is the tendency of an atom to attract bonding electrons to itself when it bonds with another atom.
- is the attraction between two atoms in which bonding electrons are shared _______ between two atoms
- 12. In general, if the difference in electronegativity between two atoms is zero the bond formed is _____
- 13. If the electronegativity difference between two atoms is between 0.5 and 2.1 the bond formed is ____

		Name
14. If the	electronegativity dif	ference between two atoms is greater than 2.1, the bond is
15. In an	ionic bond, the valen	ce electrons are
16. In a r	netallic bond the valer	nce electrons form a
Rank	the bonds (ionic, cov	alent, metallic) in order from strongest to weakest.
18. Class	ify each of the follow	ing compounds as either: Ionic, Covalent, Metallic.
a.	H_2O	• • •
b.	NaCl	
c.	$MgSO_4$	
	CsCl	
e.	Fe	
f.	Hg	
	He	
_	$Ca_3(PO_4)_2$	
i.	NH ₄ Cl	
j.	NH_3	
_	P_2O_5	
1.	Ag ·	
m.	AgNO ₃	
	AgCl	
0.	Titanium	
n	Barium Phoenhate	

Sulfur Dioxide

Tungsten V Bromide

r. Bromine