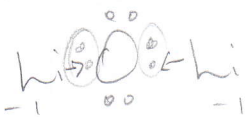


Bonding Worksheet 4

1. Which is the correct name for Al_2S_3 ?
- A) aluminum sulfide
B) aluminum trisulfide
C) dialuminum trisulfide
D) trialuminum disulfide
2. Which is the correct name for CO ?
- A) carbon oxide
B) monocarbon monoxide
C) carbon monoxide
D) monocarbon oxide
3. Which is the correct name for N_2S_3 ?
- A) nitrogen sulfide
B) trinitrogen disulfide
C) dinitrogen trisulfide
D) nitrogen trisulfide
4. What is the molecular formula for carbon dioxide?
- A) CO
B) CO_2
C) C_2O
D) C_2O_2
5. What is the molecular formula for calcium chloride?
- A) CaCl
B) Ca_2Cl
C) CaCl_2
D) CaCl_3
6. What is the molecular formula for magnesium oxide?
- A) Mg_2O_2
B) Mg_2O
C) MgO_2
D) MgO
7. What is the molecular formula for aluminum chloride?
- A) AlCl
B) AlCl_3
C) Al_3Cl
D) Al_7Cl_3
8. What compound is formed when an element in period two with 1 valence electron bonds with an element from family 6 with a valence of 2?
- A) lithium oxide
B) lithium trioxide
C) monolithium trioxide
D) hexa lithium monoxide
- 
9. What is the molecular formula of question number 8?
- A) LiO
B) LiO_2
C) Li_6O
D) Li_2O
10. Which molecular formulas follow the stable octet rule?
- 1- CaCl_2
2- MgO_2
3- P_2S_3
4- AlCl_3
5- PCl
6- K_2O
- A) 1, 3 and 4
B) 2, 3 and 5
C) 1, 3, 4 and 6
D) 1, 3, 5 and 6
11. An element from group 2 is bonded with a halogen. Which compound correctly shows this bond?
- A) BeCl_2
B) Be_2Cl
C) BeCl_7
D) Be_2Cl_7

12. Draw Lewis structures for the following:

Magnesium phosphide		Aluminum chloride	
Hydrogen Chloride		Nitrogen tribromide	
Oxygen		Calcium chloride	

13. Give the name of the molecules.

CH ₄	Carbon tetrahydride	BeCl ₂	Beryllium Chloride
KI	Potassium Iodide	C ₂ S ₄	DiCarbon tetrasulfide
CO ₂	Carbon Dioxide	K ₂ S	Potassium Sulfide
CaS	Calcium sulfide	Na ₃ P	Sodium Phosphide
MgO	Magnesium oxide	Al ₂ S ₃	Aluminium Sulfide

14. Write the molecular formulas of the molecules

Magnesium chloride 2 1	MgCl ₂	Silicon tetrachloride	SiCl ₄
Potassium oxide 1 2	K ₂ O	Lithium phosphide 1 3	Li ₃ P
Calcium chloride 2 1	CaCl ₂	Potassium chloride 1 1	KCl
Nitrogen trihydride	NH ₃	Sulfur dioxide	SO ₂
Sodium oxide 1 2	Na ₂ O	Disilicon hexafluoride	Si ₂ F ₆
Phosphorus tribromide	PBr ₃	Dichlorine monoxide	Cl ₂ O