

Answers to 1/3 sheet writing/naming chemical formulas worksheet:

- 2) a)  $K_2S$                       b)  $Ca(OH)_2$                       c)  $(NH_4)_2SO_4$   
d)  $Fe_2O_3$                       e)  $CuCl_2$                       f)  $AgNO_3$   
g)  $Na_2CO_3$                       h)  $Ti_2O_3$
- 3) a) zinc sulfide                      b) potassium nitrate  
c) hydrogen sulfate                      d) ammonium hydroxide  
e) sodium iodide                      f) sodium oxide  
g) silver sulfide                      h) magnesium sulfate  
i) chromium sulfate                      j) sulfur dioxide
- 4) a)  $NiBr_3$                       b)  $Ag_2O$                       c)  $O_2$   
d)  $Al_2(CO_3)_3$                       e)  $NO_3$                       f)  $CCl_4$   
g)  $P_2O_3$                       h) silicon dioxide                      i) hydrogen chloride  
j) calcium carbonate                      k) magnesium oxide                      l) magnesium carbonate

Answers to the 1/2 sheet review sheet!!!!

- 1) a) only has two atoms or polyatomic ions in it; ends in -ide  
b) bond where atoms transfer electrons; involves a metal and a nonmetal  
c) bond where atoms share electrons  
d) a group of atoms that behave like a single atomic ion  
e) elements in group 18; they have full outer shells or eight electrons in the outer shell; they do not typically react since they satisfy the octet rule  
f) the charge on the atom after it gains or loses electrons
- 2) a metal and a nonmetal, or possibly a polyatomic ion instead of one of them
- 3) nonmetals only
- 4) Only with covalent compounds... when there are only nonmetals involved. The prefixes are:
- |           |           |
|-----------|-----------|
| Mono - 1  | hexa - 6  |
| Di - 2    | hepta - 7 |
| Tri - 3   | octa - 8  |
| Tetra - 4 | nona - 9  |
| Penta - 5 | deca - 10 |
- 5) This is the charge on the atom (the ion) after it gains or loses electrons.
- 6) Count the number of valence electrons. If it has 3 or less, it will lose those electrons, and if it has 5, 6, or 7, it will gain electrons until it has 8. Count the number gained (that