Name_____Date_____Period_____

Naming Compounds Classification Activity

OBJECTIVE:

- By looking at the composition (*make-up*) of a chemical formula, students should be able to accurately classify compounds and name them using the appropriate set of naming rules

Classify the following compounds as either:

IONIC COMPOUND
- **METAL** / Nonmetal
- **METAL** / Polyatomic Ion
- Transition **METAL** / Nonmetal
- Transition **METAL** / Polyatomic Ion

COVALENT COMPOUND
- Nonmetal / Nonmetal
- Diatomic Molecule
  - **Br_2 I_2 N_2 Cl_2 H_2 O_2 F_2**

ACID *(starts with hydrogen (**H**)*
- H + Element
- H + Polyatomic Ion

Compound	Ionic / Covalent / Acid	Further Classification (*see above*)
1. _____**$MgBr_2$**_____	_____	_____
2. _____**CO_2**_____	_____	_____
3. _____**K_3PO_4**_____	_____	_____
4. _____**F_2**_____	_____	_____
5. _____**$CuCl_2$**_____	_____	_____
6. _____**Na_3SO_4**_____	_____	_____
7. _____**H_3PO_4**_____	_____	_____
8. _____**$Pb(NO_3)_2$**_____	_____	_____
9. _____**PCl_3**_____	_____	_____
10. _____**HCl**_____	_____	_____
11. _____**CaO**_____	_____	_____
12. _____**H_2**_____	_____	_____

ASSIGNMENT:

On the back of this page, construct a step-by-step flowchart that you could use to help classify chemical compounds.

THINGS TO THINK ABOUT!!

- What question(s) would you ask to determine whether you have an IONIC, COVALENT, or ACID compound?
- What question(s) would you ask to determine how to further classify your compounds into the categories listed above?