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| *Using all four naming rules*  CλeMis+ry: http://genest.weebly.com  Stop in for help every day at lunch and Tues &Thurs after school! |  | Name\_\_\_\_\_\_\_\_\_\_\_\_\_  Period\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| http://www.green-planet-solar-energy.com/images/PT-blank-1.gif | 1. Use your periodic table to write the element symbols and charges for all of the following:  * The halogens * Group 16 * The +1, +2, +3 elements near the middle of the table, that starts with silver |

1. Fill in just the formula. THEN write the name of the compound.

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|  | *zinc* | *lead (II)* | *gallium* | *lead (IV)* |
| *chloride* | ZnCl2  zinc chloride |  |  |  |
| *acetate* |  |  |  |  |
| *nitrate* |  |  |  |  |

1. You should only use the Greek prefixes (mono, di, tri, etc) if the

compound is (ionic / molecular)

1. You should never use the Greek prefixes (mono, di, tri, etc) if the compound contains a ( metal / nonmetal )

Name these using the mono, di, tri Greek prefixes

1. C2H2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. N2H4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. PH3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**These are molecular compounds. Name them using the rules for molecular compounds (greek prefixes)**

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| 1. N2O5 2. P2O4 3. C2N3 | 1. C3N2 2. NI3 3. PF2 |

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| read this! Use these asterisks to help you name the compounds in the squares below  \*This has one metal and one nonmetal element. name it ELEMENT + ELEMENT + IDE  \*\* This has three or more elements. You MUST use the polyatomic names from the *back* of your periodic table handout  \*\*\* This has a metal element with unpredictable charge, from the middle of the periodic table. You must assign a Roman Numeral. Don't be goofy: Roman Numerals DON'T tell how many atoms, they tell the "plus charge" of a single atom Example, in TiO2, the name is Titanium(IV) oxide. The "IV" means there is a plus four charge on the metal atom. |

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| Mg(ClO3)2 \*\* | NH4NO3 \*\* | NaCl \* | AgI \* |
| CaSO4 \*\* | CaO \* | PbO \*\*\* | Mg(MnO4)2 \*\* |
| FeS \*\*\* | Fe2S3 \*\*\* | KMnO4 \*\* | Ca(OH)2 \*\* |
| Mo(ClO4)2 \*\*\* | CoCl2 \*\*\* | CuBr \*\*\* | CoCl3 \*\*\* |