Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Unit 6 I Can Statements Due\_\_\_\_\_\_\_\_\_\_\_\_

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| **\_\_\_\_\_1.Given the chemical symbol/formula, I can determine how many atoms are present.** | * How many atoms are in N2? \_\_\_\_\_\_\_
* What is the total # of atoms in Pb(C2H3O2)2)?
* How many atoms of C are in Pb(C2H3O2)2)?
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| **\_\_\_\_\_2. I can determine the gram-formula mass for any element or compound.** | * What is the gfm for N2?
* What is the gfm for Pb(C2H3O2)2)?
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| **\_\_\_\_\_3. I can define a mole as it pertains to chemistry.** | **Definition:** |
| **\_\_\_\_\_4. I can find the number of moles of substance if I am given the mass and formula for the substance. Using dimensional Analysis** | 94.3 g is how many moles of NaCl? |
| **\_\_\_\_\_\_5. I can find the number of grams of a substance if I am given the number of moles. Using Dimensional analysis.** | 32g of O2 is how many moles?  |
| **\_\_\_\_\_6. I can determine the percent composition of an element in a compound.** | What is the percent by mass of Mg in Mg(NO3)2? |
| **\_\_\_\_\_7. Given the IUPAC name, I can write the chemical formula for binary compounds.** | Write the chemical formula for the following compounds:sodium bromide\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ lithium selenide\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_iron (III) fluoride\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |
| **\_\_\_\_\_8. Given the chemical formula, I can write the IUPAC name for binary compounds.** | Write the IUPAC name for the following compounds:CrO\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MgI2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **\_\_\_\_\_9. Given the IUPAC name, I can write the chemical formula for ternary compounds.** | Write the chemical formula for the following compounds:calcium oxalate\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_nickel (II) thiosulfate\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **\_\_\_\_\_10. Given the chemical formula, I can write the IUPAC name for ternary compounds.** | Write the IUPAC name for the following compounds:Sn(C2H3O2)2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(NH4)3PO4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| **\_\_\_\_\_11. I can define empirical formula, molecular formula, and hydrate.** | **Definitions:**empirical formulamolecular formulahydrate |
| **\_\_\_\_\_15. Given the empirical formula and the molar mass, I can determine the molecular formula of a compound.** | What is the molecular formula of a compound that has the empirical formula of CH and a molar mass of 78 g/mol. |