CW 2- Mass and the Mole

Name:

Period: 2 3 4

Directions: Solve the following problems using dimensional analysis. You can also use your mole map if needed. **Show your work and make sure your answers are in correct significant figures and have units**!

Molar Mass – Calculate the molar mass of the following compounds.

1. NaCl 4. Ca(OH)2
2. H2O 5. C12H22O11
3. Fe2(SO4)3 6. Ag3PO4

Mass and the Mole Calculations

1. How many moles are in 100. g of NaCl?
2. What is the mass, in g, of 0.641 moles of H2O?
3. How many moles are in 799.82g of Fe2(SO4)3?
4. What is the mass, in g, of 5.11 moles of Ca(OH)2?
5. How many moles are in 0.34234 kg of ? (Remember, 1000g = 1kg)
6. What is the mass, in mg, of 0.750 moles of Ag3PO4? (Remember, 1g = 1000mg)