Name Period Date

Counting Particles

Lab # ____

Aim: To be able to calculate the number of particles in a sample using the mass.

Vocabulary: Must cite your source. (10 pts.)

Gram Formula Mass-

Mole-

Materials:

Method: (10 pts.)

1) Give a step by step method on how to solve for the number Moles in a substance using the substance's mass.

2) 2) Give a step by step method on how to solve for the mass of a substance using the number Moles of that substance.

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Data: Remember to put the correct unit in the parentheses. (30 pts.)

Name of Substance	Formula of Substance	Gram Formula Mass ( )	Mass of Sample ( )	Number of Moles of particles in the sample.( )
Copper				
	Al			
Calcium Chloride				
	N_2O_3			
	I_2			
Potassium dichromate				

Calculations: Using the Mole Calculations Formula form Table T of the Chemistry Reference Table solve for the missing values. **Show all your work for each problem on a separate paper. Neatness Counts final answers should be recorded in the table above. All work must be shown. Including the formula used, the correct numerical setup and units. (30 pts)**

Questions: Sheet attached. (20 pts.)

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Gram Formula Mass

$$\frac{\#\ of\ moles}{1 mole} = \frac{given\ mass}{GFM}$$

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