Name Date

Period

Grade:

## Lab 22 MOLES

**PreLab Questions** 

None

NAME		PERIOD
DATE	LAB PARTNERS	

## EXPERIMENT 22 MOLES

Sample Number	Formula	Formula Mass	Mass of Sample & Bag	Mass of Bag	Mass of Sample	Number of Moles	Number of Particles
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

## **Conclusion Questions** (question. may be answered directly on this page)

Co	retusion Questions (question may so un	is werea anceary on ams page)			
1.	Write group number, names, period, and name of substance to be enclosed (zinc or dextrose) on two separate index cards. Enclose each card in a different plastic bag. Mass each bag separately. These will be used to complete the following two activities.				
2.	Mass 0.200 moles of zinc in one of the plastic bag prepared in step one. To do this you will need to complete some calculations.				
	Mass of zinc In 0.200 mole =	g.			
	Mass of plastic bag (1) =	g.			

Total mass zinc + bag = g.

Turn this bag in with your lab.

3. Mass  $6.02 \times 10^{22}$  molecules of dextrose in a plastic bag. prepared in step four. To do this you will need to complete some calculations.

Mass of  $6.02 \times 10^{23}$  molecules of dextrose = g.

Mass of plastic bag (1) = g.

Total mass dextrose + bag = g.

Turn this bag in with your lab.

4. Obtain one of the sample A, B, C, D, E, or F. This sample contains a marked number of moles of an unidentified element. You are to determine the identity of the element by (1) massing the sample, (2) subtracting the mass of the bag, (3) solving the equation:

Atomic mass = (number of grams)/(number of moles)

and (4) locating the element with the same atomic mass on the Periodic Table.

Unknown letter

Moles of unknown

Mass of unknown + bag g.

Mass of unknown g.

Atomic mass

Name of unknown element

Discussion

Conclusion