Teacher Name:	Coker	Student Name:			
Class :	Enhanced Chemistry / Enhanced Chemistry Academy				
Period :	1, 2, 4, 5				
Assignment:	Assignment Week 3				
Due:	Friday, 5/15				

Chemical Quantities (Molar Mass)

General Instructions:

Please do the activities for each day as indicated. You will work the problems on separate sheets of paper as necessary that you will attach to the completed packet that you submit.

Submitted Work (Edmodo preferred):

1) Completed problems from Tuesday through Friday ONLY

Questions:

1) Please send email as you have questions and/or attend virtual office hours (9:00 – 10:00 AM and 2:30 – 3:30 PM).

Date	Activity			
Monday (4/27)	Read Section 7.3			
	Take reading notes.			
	Be able to work through all sample problems.			
Tuesday (4/28)	Do practice problem 1 (pg. 238), 1,2 (pg. 239), 1,2,3 (pg. 242)			
Wednesday (4/29)	Molar Mass problems (below): 2-7			
Thursday (4/30)	Mole Conversion Problems (below): 1-3			
Friday (5/1)	Mole Conversion Problems (below): 4-6			

Molar Mass

Calculate the molar mass of the following compounds. Show all of your work as demonstrated in the example. This is as "short" of a short cut you can do.

Mass the molar mass of the following compounds. Show all $o_{J_{J_{n}}}$ $\begin{aligned}
& \left(\bigcup_{3} P = Copper(I) phosphide \\
& \left(\bigcup_{2} = 63.559 \times 3 = 190.659 C_{U_{2}} \\
& P = 30.9797 \times 1 = 30.979P \\
& 221.629 C_{U_{3}}P \\
& Imol C_{U_{3}}P
\end{aligned}$ Must contor / 54 oc

2. SO ₂	3. Fe ₂ O ₃
$4. Mg_3N_2$	5. K_2SO_4
6. PbSO ₄	7. CCl ₄

Mole Conversion Problems:



Complete the operations as indicated below. For gasses, assume STP unless otherwise specified.

1.	Calculate the mass in grams of each of the following:	2.	Calculate the # of molecules in each of the following:	3.	Calculate the number of molecules in each of the	
a)	2.00 moles CO ₂	a)	3.00 moles H ₂ O		following:	
b)	0.500 moles NH₃	b)	3.50 moles CH ₄	a)	3.00 grams H ₂ O ₂	
				b)	5.00 grams H ₂ CO ₃	
4.	Calculate the volume in liters for each of the following:	5.	Calculate the mass in grams for each of the following:	6.	Calculate the volume in liters for each of the following:	
a)	3.00 moles H ₂	a)	9.28 x 10 ²³ molecules CO ₂	a)	3.00×10^{23} molecules H ₂	
b)	5.00 grams O ₂	b)	$5.00 \text{ x } 10^{23} \text{ molecules } \text{NH}_3$	b)	$5.00 \text{ x } 10^{23} \text{ molecules } CO_2$	

Answer Key:	5) 174.26 g/mol	1b) 8.52 g 2a) 1.81 X 10 ²⁴ molecules	2b) 2.11 X 10 ²⁴ molecules	3b) 2.91 X 10 ²² molecules 4a) 67.2 L	5a) 67.8 g
2) 64.06 g/mol	6) 303.26 g/mol				5b) 14.1 g
3) 159.70 g/mol	7) 153.81 g/mol		3a) 5.31 X 10 ²²		6a) 11.2 L
4) 100.95 g/mol	1a) 88.0 g		molecules	4b) 3.50 L	6b) 18.6 L