Name:	Period:	_
	Law of Conservation of Mass Worksheet	

1. Define the law of conservation of mass in your own words:

2. According to the LOCO mass, the mass of reactants and products are \_\_\_\_\_

- 2. Recording to the Bodo mass, the mass of reactants and products are \_\_\_\_\_\_
- 3. Use the LAW OF CONSERVATION OF MASS to fill out the missing information in the table below. Mass of Reactants = Mass of Products

Reaction	Reactant(s)			Product(s)	
A)	H <sub>2</sub> +	O <sub>2</sub> -	<del>)</del>	H <sub>2</sub> O	
mass	3.4g	10g			
B)	CH <sub>4</sub> +	<b>O</b> <sub>2</sub> -	<del>&gt;</del>	CO <sub>2</sub> +	H <sub>2</sub> O
mass	12.2g	14g			20.0g
<b>C)</b>	HgO	-	<del>&gt;</del>	Hg +	02
mass	23.6g				13.0g
D)	Li +	02	<b>&gt;</b>	Li <sub>2</sub> O	
mass		5.7g		24.6ջ	5

## 4-5 Answer the word problems using the LAW OF CONSERVATION OF MASS. SHOW ALL WORK AND INCLUDE <u>UNITS</u>!!!!

4. Hydrogen & oxygen react chemically to form water. How much water would form if 14.8 grams of hydrogen reacted with 34.8 grams of oxygen? ( $H_2 + O_2 \rightarrow H_2O$ )

5. A solid mass of 25 g is mixed with 60 g of a solution. A chemical reaction takes place and a gas is produced. The final mass of the mixture is 75 g. What is the mass of the gas released?

## **Law of Definite Proportions Worksheet**

1.	Define the law of definite proportions in your own words:			

2. According to the LODP, complete the following table:

Compound	Carbon Mass	Oxygen Mass	Hydrogen Mass
H <sub>2</sub> O	x	16 g	
CO <sub>2</sub>	12 g		X
CH <sub>4</sub>		X	4 g
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>			12 g

3. According to the LODP, complete the following table (\*HINT: you might want to find the ratios from the table above)

Compound	Carbon Mass	Oxygen Mass	Hydrogen Mass
H <sub>2</sub> O	x	32 g	
CO <sub>2</sub>	6 g		Х
CH <sub>4</sub>		X	10 g
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>			36 g

## **Law of Multiple Proportions Worksheet**

1.	Define the law of definite proportions in your own words:				
2.	If I have 2 g of carbon, how many grams of oxygen will be in CO and CO <sub>2</sub> ?	 ?			
	CO	g			
	CO <sub>2</sub>	g			
3.	If I have 3 g of hydrogen, how many grams of oxygen will be in H <sub>2</sub> O and H	<sub>2</sub> O <sub>2</sub> ?			
	H <sub>2</sub> O	g			

 $H_2O_2$  \_\_\_\_\_ g