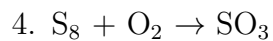
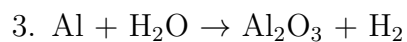
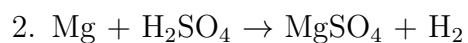
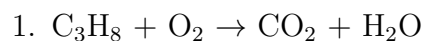


# Chemistry Worksheet

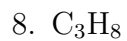
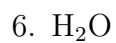
## Balancing Chemical Equations

Balance the following chemical equations:



## Molar Mass Calculations

Calculate the molar mass of the following chemical compounds:



10.  $\text{H}_2\text{SO}_4$

## Stoichiometric Calculations

Answer the following stoichiometric problems:

11. How many grams of  $\text{O}_2$  are required to completely burn 32 grams of  $\text{CH}_4$ ?

(Molar mass:  $\text{CH}_4 = 16 \text{ g/mol}$ ,  $\text{O}_2 = 32 \text{ g/mol}$ )

12. How many grams of  $\text{H}_2\text{O}$  are produced when 48 grams of  $\text{O}_2$  react with hydrogen to form water?

(Molar mass:  $\text{H}_2\text{O} = 18 \text{ g/mol}$ ,  $\text{O}_2 = 32 \text{ g/mol}$ )

13. What is the mass of  $\text{NaCl}$  formed when 30 grams of  $\text{Na}$  react completely with chlorine gas?

(Molar mass:  $\text{NaCl} = 58.5 \text{ g/mol}$ ,  $\text{Na} = 23 \text{ g/mol}$ )