

Conservation of Mass – Mark Scheme

Answer the following questions in full sentences:

1. Describe the following compound in terms of numbers of atoms.
 - a. NaNO_2 one sodium atom, one nitrogen atom, two oxygen atoms
 - b. KOH one potassium atom, one oxygen atom, one hydrogen atom
 - c. $\text{Mg}(\text{OH})_2$ one magnesium atom, two oxygen atoms, two hydrogen atoms
 - d. $\text{Pb}(\text{NO}_3)_2$ one lead atom, two nitrogen atoms, six oxygen atoms.
2. Balance the following equations.
 - a. $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$
 - b. $4\text{Na} + \text{O}_2 \rightarrow 2\text{Na}_2\text{O}$
 - c. $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$
 - d. $2\text{NaNO}_3 \rightarrow 2\text{NaNO}_2 + \text{O}_2$

