



## Conservation of Mass – Mark Scheme

Answer the following questions in full sentences:

1. Describe the following compound in terms of numbers of atoms.
  - a.  $\text{NaNO}_2$  one sodium atom, one nitrogen atom, two oxygen atoms
  - b.  $\text{KOH}$  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.  $2\text{NaNO}_3 \rightarrow 2\text{NaNO}_2 + \text{O}_2$

