Reaction	Reading by Elementary Entities (Formula Units)	Reading by Mole (NA of elementary entities or formula units)
$2 H_2 + O_2 \rightarrow 2 H_2O$	2 molecules of hydrogen react with 1 molecule of oxygen to form 2 molecules of water	2 moles of hydrogen react with 1 mole of oxygen to form 2 moles of water
$CH_4 + 2 O_2 \rightarrow CO_2 + 2 H_2O$	1 molecule of methane reacts with 2 molecules of oxygen to form 1 molecule of carbon dioxide and 2 molecules of water	1 mole of methane reacts with 2 moles of oxygen to form 1 mole of carbon dioxide and 2 moles of water
$2 \text{ Na} + 2 \text{ H}_2\text{O} \rightarrow 2 \text{ NaOH} + \text{H}_2$	2 atoms of sodium react with 2 molecules of water to form 2 formula units of sodium hydroxide and 1 molecule of hydrogen	2 moles of sodium reacts with 2 moles of water to form 2 moles of sodium hydroxide and 1 mole of hydrogen
$Ca + 2 H_2O \rightarrow Ca(OH)_2 + H_2$	1 atom of calcium reacts with 2 molecules of water to form 1 formula unit of calcium hydroxide and 1 molecule of hydrogen	1 mole of calcium reacts with 2 moles of water to form 1 mole of calcium hydroxide and 1 mole of hydrogen
$2 \text{ NaBr} + \text{Cl}_2 \rightarrow 2 \text{ NaCl} + \text{Br}_2$	2 formula units of sodium bromide react with 1 molecule of chlorine to form 2 formula units of sodium chloride and 1 molecule of bromine	2 moles of sodium bromide react with 1 mole of chlorine to form 2 moles of sodium chloride and 1 mole of bromine
$AgNO_3 + KCl \rightarrow AgCl\downarrow + KNO_3$	1 formula unit of silver nitrate reacts with 1 formula unit of potassium chloride to form 1 formula unit of silver chloride (precipitate) and 1 formula unit of potassium nitrate	1 mole of silver nitrate reacts with 1 mole of potassium chloride to form 1 mole of silver chloride (precipitate) and 1 mole of potassium nitrate
$2AgNO_3 + CaBr_2 \rightarrow 2 AgBr \downarrow + Ca(NO_3)_2$	2 formula units of silver nitrate react with 1 formula unit of calcium bromide to form 2 formula units of silver bromide (precipitate) and 1 formula unit of calcium nitrate	2 moles of silver nitrate react with 1 mole of calcium bromide to form 2 moles of silver bromide (precipitate) and 1 mole of calcium nitrate
$\boxed{\text{Na}_2\text{CO}_3 + 2\text{HCl} \rightarrow 2\text{Na}\text{Cl} + \text{CO}_2\uparrow + \text{H}_2\text{O}}$	1 formula unit of sodium carbonate reacts with 2 formula units of hydrochloric acid to form 2 formula units of sodium chloride, 1 molecule of carbon dioxide (gas), and 1 molecule of water	1 mole of sodium carbonate reacts with 2 moles of hydrochloric acid to form 2 moles of sodium chloride, 1 mole of carbon dioxide (gas), and 1 mole of water

Reaction	Reading by Mole (N_A of elementary entities or formula units)	Reading by Mass (Molar mass of each substance is needed)
$2 H_2 + O_2 \rightarrow 2 H_2O$	2 moles of hydrogen react with 1 mole of oxygen to form 2 moles of water	4 g of hydrogen react with 32 g of oxygen to form 36 g of water
$CH_4 + 2 O_2 \rightarrow CO_2 + 2 H_2O$	1 mole of methane reacts with 2 moles of oxygen to form 1 mole of carbon dioxide and 2 moles of water	16 g of methane react with 32 g of oxygen to form 44 g of carbon dioxide and 36 g of water
$2 \text{ Na} + 2 \text{ H}_2\text{O} \rightarrow 2 \text{ NaOH} + \text{H}_2$	2 moles of sodium reacts with 2 moles of water to form 2 moles of sodium hydroxide and 1 mole of hydrogen	46 g of sodium react with 36 g of water to form 80 g of sodium hydroxide and 2 g of hydrogen
$Ca + 2 H_2O \rightarrow Ca(OH)_2 + H_2$	1 mole of calcium reacts with 2 moles of water to form 1 mole of calcium hydroxide and 1 mole of hydrogen	40 g of calcium react with 36 g of water to form 74 g of calcium hydroxide and 2 g of hydrogen
$2 \text{ NaBr} + \text{Cl}_2 \rightarrow 2 \text{ NaCl} + \text{Br}_2$	2 moles of sodium bromide react with 1 mole of chlorine to form 2 moles of sodium chloride and 1 mole of bromine	206 g of sodium bromide react with 71 g of chlorine to form 117 g of sodium chloride and 160 g of bromine
$AgNO_3 + KCl \rightarrow AgCl\downarrow + KNO_3$	1 mole of silver nitrate reacts with 1 mole of potassium chloride to form 1 mole of silver chloride (precipitate) and 1 mole of potassium nitrate	170 g of silver nitrate react with 74 g of potassium chloride to form 143 g of silver chloride (precipitate) and 101 g of potassium nitrate
$2AgNO_3 + CaBr_2 \rightarrow 2 AgBr \downarrow + Ca(NO_3)_2$	2 moles of silver nitrate react with 1 mole of calcium bromide to form 2 moles of silver bromide (precipitate) and 1 mole of calcium nitrate	240 g of silver nitrate react with 200 g of calcium bromide to form 356 g of silver bromide (precipitate) and 184 of calcium nitrate
$Na_{2}CO_{3} + 2HCl \rightarrow 2NaCl + CO_{2}\uparrow + H_{2}O$	1 mole of sodium carbonate reacts with 2 moles of hydrochloric acid to form 2 moles of sodium chloride, 1 mole of carbon dioxide (gas), and 1 mole of water	106 g of sodium carbonate reacts with 73 g of hydrochloric acid to form 117 g of sodium chloride, 44 g of carbon dioxide (gas), and 18 g of water