**The following questions all involve balancing (adding coefficients) equations**

* Draw the atoms/molecules to balance the equation
* Add the correct coefficient in front of the atom/molecule (if you have drawn two then add a coefficient of two into the equation)

**The next questions all involve drawing equations with coefficients.**

1. **DESCRIPTION:** Burning Magnesium in air (Oxygen gas) to form Water

**EQUATION: Mg + O2 → MgO**

**DIAGRAM:**

1. **DESCRIPTION:** Reacting Carbon and Chlorine gas to make Carbon Tetrachloride

**EQUATION: C + Cl2 → CCl4**

**DIAGRAM:**

1. **DESCRIPTION:** Heating Hydrogen and Nitrogen to form Ammonia

**EQUATION: H2 + N2 → NH3**

**DIAGRAM:**

1. **DESCRIPTION:** Dissolving Magnesium in Hydrochloric Acid to form Magnesium Chloride and Hydrogen gas

**EQUATION: Mg + HCl → MgCl2 + H2**

**DIAGRAM:**

1. **DESCRIPTION:** Burning ethane gas in oxygen to produce carbon dioxide and water

**EQUATION: C2H6 + O2 → CO2 + H2O**

**DIAGRAM:**