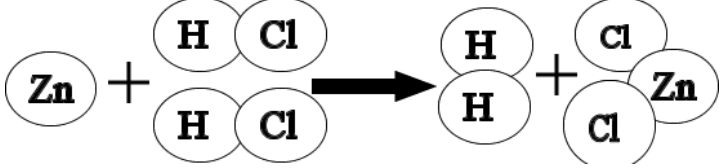


Video worksheet - balancing chemical equations.

Complete the table below using the symbols given. The first one is done for you.

Image of reaction	Unbalanced chemical equation	Balanced chemical equation
	$Zn + HCl \rightarrow H_2 + ZnCl_2$	$Zn + 2HCl \rightarrow H_2 + ZnCl_2$
	$H_2 + Cl_2 \rightarrow HCl$	$H_2 + Cl_2 \rightarrow 2HCl$
	$H_2O \rightarrow H_2 + O_2$	$2H_2O \rightarrow 2H_2 + O_2$
	$Na + Cl_2 \rightarrow NaCl$	$2Na + Cl_2 \rightarrow 2NaCl$
	$N_2 + H_2 \rightarrow NH_3$	$N_2 + 3H_2 \rightarrow 2NH_3$
	$Na + H_2O \rightarrow NaOH + H_2$	$2Na + 2H_2O \rightarrow 2NaOH + H_2$
	$HgO \rightarrow Hg + O_2$	$2HgO \rightarrow 2Hg + O_2$
	$SO_2 + O_2 \rightarrow SO_3$	$2SO_2 + O_2 \rightarrow 2SO_3$

Complete the table below using the symbols given. The first one is done for you.

Image of balanced chemical equation	Unbalanced chemical equation
 <p>Balanced equation $\underline{\quad}$ $\text{Zn} + 2\text{HCl} \rightarrow \text{H}_2 + \text{ZnCl}_2$</p>	<p>$\text{Zn} + \text{HCl} \rightarrow \text{H}_2 + \text{ZnCl}_2$</p>
<p>Balanced equation $\underline{\quad}$ $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$</p>	<p>$\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$</p>
<p>Balanced equation $\underline{\quad}$ $\text{H}_2\text{S} + \text{Cl}_2 \rightarrow \text{S} + 2\text{HCl}$</p>	<p>$\text{H}_2\text{S} + \text{Cl}_2 \rightarrow \text{S} + \text{HCl}$</p>
<p>Balanced equation $\underline{\quad}$ $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$</p>	<p>$\text{Mg} + \text{O}_2 \rightarrow \text{MgO}$</p>
<p>Balanced equation $\underline{\quad}$ $4\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$</p>	<p>$\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$</p>
<p>Balanced equation $\underline{\quad}$ $3\text{Cl}_2 + \text{N}_2 \rightarrow 2\text{NCl}_3$</p>	<p>$\text{Cl}_2 + \text{N}_2 \rightarrow \text{NCl}_3$</p>