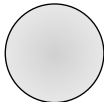
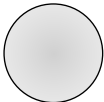
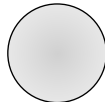
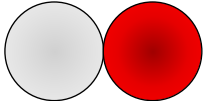
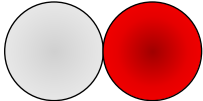
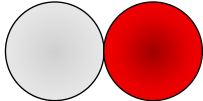
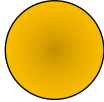
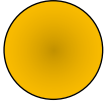
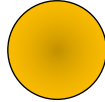
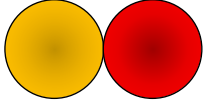
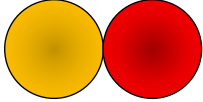
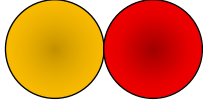
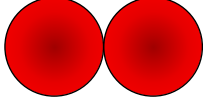
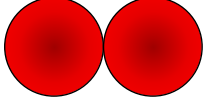
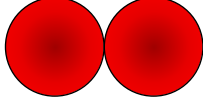
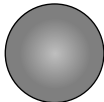
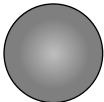
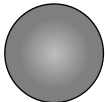
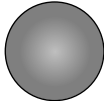
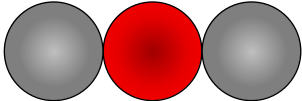
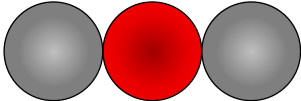
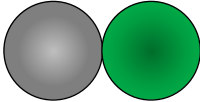
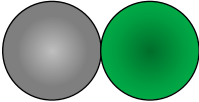
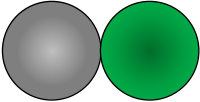
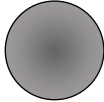
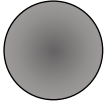
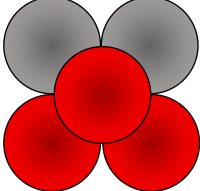
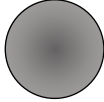
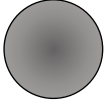
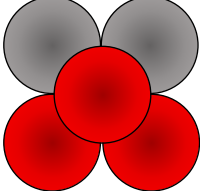
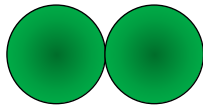
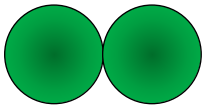
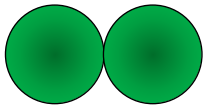
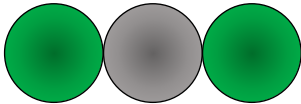
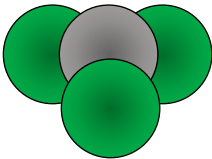
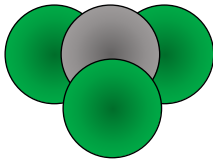


Balancing equations card sort

magnesium Mg 	magnesium Mg 	magnesium Mg 
magnesium oxide MgO 	magnesium oxide MgO 	magnesium oxide MgO 
copper Cu 	copper Cu 	copper Cu 
copper(II) oxide CuO 	copper(II) oxide CuO 	copper(II) oxide CuO 
oxygen O ₂ 	oxygen O ₂ 	oxygen O ₂ 

<p>sodium Na</p> 	<p>sodium Na</p> 	<p>sodium Na</p> 
<p>sodium Na</p> 	<p>sodium oxide Na₂O</p> 	<p>sodium oxide Na₂O</p> 
<p>sodium chloride NaCl</p> 	<p>sodium chloride NaCl</p> 	<p>sodium chloride NaCl</p> 
<p>iron Fe</p> 	<p>iron Fe</p> 	<p>iron(III) oxide Fe₂O₃</p> 
<p>iron Fe</p> 	<p>iron Fe</p> 	<p>iron(III) oxide Fe₂O₃</p> 

chlorine Cl_2 	chlorine Cl_2 	chlorine Cl_2 
iron(II) chloride FeCl_2 	iron(III) chloride FeCl_3 	iron(III) chloride FeCl_3 
+	+	+
+	→	→

Instructions

- Print the sheets onto separate sheets of paper.
- Cut out the cards and sort them into four piles:
 - all the metals
 - all the non-metals
 - all the compounds
 - the plus and arrow cards
- Work out how you can arrange the cards to make word and symbol equations.
- Eleven reactions are possible with this kit:
 - sodium with:
 - oxygen
 - chlorine
 - magnesium oxide
 - copper(II) oxide
 - iron(III) chloride
 - copper with oxygen
 - magnesium with:
 - oxygen
 - iron(III) oxide
 - iron with:
 - oxygen
 - chlorine
 - copper(II) oxide
- Make sure there are equal numbers of atoms of each element either side of the arrow.
- Write out the word equations and balanced symbol equations you have made.