

## CC13 Groups in the Periodic Table

## CC13a Group 1

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 7 <sup>th</sup>	Explain the classification of alkali metals, halogens and noble gases, into groups in the periodic table.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 <sup>th</sup>	Describe the main physical properties of alkali metals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 <sup>th</sup>	Describe the reactions of lithium, sodium and potassium with water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 <sup>th</sup>	Write word, balanced and <b>H</b> ionic equations (including state symbols) for the reactions of alkali metals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 <sup>th</sup>	Describe the pattern of reactivity of the alkali metals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 10 <sup>th</sup>	Explain how the electronic configurations of the atoms of alkali metals affect their reactivity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## CC13b Group 7

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 3 <sup>rd</sup>	Recall the appearance of chlorine, bromine and iodine at room temperature.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 <sup>th</sup>	Describe the trends in colour, melting point and boiling point of chlorine, bromine and iodine down the group, and use these to predict physical properties of other halogens.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 5 <sup>th</sup>	Describe the chemical test for chlorine gas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 <sup>th</sup>	Describe the trends in the reactions of halogens with metals, and use this to predict reactions of other halogens.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 <sup>th</sup>	Write word and balanced chemical equations, including state symbols, for the reactions of halogens with metals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 <sup>th</sup>	Describe hydrogen halides and their chemical properties.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## CC13c Halogen reactivity

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 6 <sup>th</sup>	Describe the relative reactivity of halogens.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 <sup>th</sup>	Explain how the reactivity of halogens can be worked out from displacement reactions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 <sup>th</sup>	Write balanced chemical equations, including state symbols, for the displacement reactions of halogens.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 10 <sup>th</sup>	 Explain how displacement reactions are examples of redox reactions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 <sup>th</sup>	 Write ionic equations, including state symbols, for displacement reactions of halogens.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 10 <sup>th</sup>	Explain the order of reactivity of halogens (using electronic configurations).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## CC13d Group 0

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 8 <sup>th</sup>	Explain why noble gases are chemically inert by referring to their electronic configuration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 3 <sup>rd</sup>	Describe uses of noble gases linked with their properties.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 <sup>th</sup>	Describe the trends in the physical properties of the noble gases.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 <sup>th</sup>	Use trends in physical properties to predict the physical properties of other noble gases.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>