# **Revision checklist**

SC8

### **SC8 Acids and Alkalis**

### SC8a Acids, alkalis and indicators

Step	Learning outcome	Had a look	Nearly there	Nailed it!
4 <sup>th</sup>	Describe what the main hazard symbols mean.			
5 <sup>th</sup>	Describe the safety precautions that should be observed when handling different acids and alkalis.			
4 <sup>th</sup>	Name the ions present in all acidic and all alkaline solutions.			
5 <sup>th</sup>	State the pH values associated with acidic, alkaline and neutral solutions.			
5 <sup>th</sup>	Describe the effect of acids and alkalis on common indicators.			
5 <sup>ch</sup>	Explain the link between pH and the concentration of ions in acids and alkalis.			

### SC8b Looking at acids

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 <sup>th</sup>	■ Describe the relationship between hydrogen ion concentration and pH.			
5 <sup>ch</sup>	Explain the difference between a dilute and concentrated solution (in terms of the amount of solute present).			
<b>7</b> th	Explain the difference between strong and weak acids (in terms of the degree of dissociation of the acid molecules).			
7 <sup>th</sup>	Explain how the pH and reactivity of an acid depend on the concentration and the strength of the acid.			

Edexcel GCSE (9-1)

Sciences

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#### SC8c Bases and salts

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what happens during a neutralisation			
the steps involved in preparing a salt from an acid and an insoluble			
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## SC8d Alkalis and balancing equations

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 <sup>th</sup>	Recall the chemical formulae of some common compounds.			
6 <sup>th</sup>	Recall and use state symbols.			
9 th	Balance chemical equations.			
4 <sup>th</sup>	Recall that alkalis are soluble bases.			
6 <sup>th</sup>	Describe the reactions of alkalis with acids.			

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### SC8e Alkalis and neutralisation

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 <sup>th</sup>	Explain what happens to the ions from acids and alkalis during neutralisation.			
6 <sup>th</sup>	Explain why titration is used to prepare soluble salts.			
6 <sup>th</sup>	Describe how to carry out an acid–alkali titration.			

#### SC8f Reactions of acids with metals and carbonates

Step	Learning outcome	Had a look	Nearly there	Nailed it!
9 <sup>th</sup>	₩ Write balanced ionic equations.			
<b>7</b> <sup>th</sup>	Explain the general reaction between an acid and a metal to produce a salt and hydrogen.			
<b>7</b> <sup>th</sup>	Explain the general reaction between an acid and a metal carbonate to produce a salt, water and carbon dioxide.			
5 <sup>th</sup>	Describe the test for hydrogen.			
5 <sup>th</sup>	Describe the test for carbon dioxide.			

## **SC8g Solubility**

Step	Learning outcome	Had a look	Nearly there	Nailed it!
4 <sup>th</sup>	Recall the general rules for the solubility of common substances in water.			
6 th	Predict whether or not a precipitate will form from two solutions.			
6 th	Name the precipitate formed in a reaction.			
6 <sup>th</sup>	Describe how to prepare a pure, dry sample of an insoluble salt.			