



<b>This unit I will be learning about acids and alkalis</b>	<b>The key words I will learn this unit are...</b>
<p><b>This unit I am learning:</b></p> <ul style="list-style-type: none"> <li>• How substances are classified by acids and alkalis</li> <li>• How indicators are used</li> <li>• To prepare a soluble salt from an insoluble base</li> <li>• The process of neutralisation</li> </ul> <p><b>By the end of this unit I will be able to:</b></p> <ul style="list-style-type: none"> <li>• Recall if substances are acids and alkalis by using the Ph scale</li> <li>• Compare the use of different indicators</li> <li>• Describe the difference between weak and strong acids</li> <li>• Describe and investigate neutralisation</li> <li>• Prepare insoluble salt from soluble base</li> <li>• Identify if a substance is soluble or insoluble</li> <li>• Construct neutralisation equations</li> </ul>	Acid Alkali Base Hydrogen Hydroxide Indicator Phenolphthalein Universal indicator Soluble Insoluble Concentrated Dilute Hydrogen Neutralisation

<b>Week's Learning</b>	<b>Literacy Links</b>	<b>100% Sheet Homework</b>
<p><b>Week 1</b></p> <ul style="list-style-type: none"> <li>• Describe why hazard symbols are used</li> <li>• Recall some common acids and alkalis</li> <li>• Use and interpret the p H scale</li> <li>• Describe what the p H tells us about the ions in a solution</li> <li>• Compare the effects of acids and alkalis on some common indicators</li> <li>• <b>Explain the difference between a concentrated and a weak solution</b></li> <li>• <b>Calculate dilution factors</b></li> </ul>	<p><b>I will use these literacy skills...</b></p> <p>Comparison of different indicators</p>	<p><b>I will complete this home learning...</b></p> <p>MCQs</p>
<p><b>Week 2</b></p> <ul style="list-style-type: none"> <li>• Describe what happens in a neutralisation reaction</li> <li>• Write an ionic equation for neutralisation</li> <li>• Investigate neutralisation between calcium oxide and hydrochloric acid</li> <li>• Describe the stages in preparing a soluble salt from an insoluble base</li> <li>• Diagnose my strengths and weaknesses so far</li> </ul>	<p>Method for preparing copper sulphate crystals</p>	<p>Spelling test</p>
<p><b>Week 3</b></p> <ul style="list-style-type: none"> <li>• Construct equations for metals and acids, metal oxides and acids and metal carbonates and acids</li> <li>• Balance chemical equations</li> <li>• Describe the terms alkali and base.</li> <li>• Recall the rules for solubility of common substances in water</li> <li>• Investigate how to prepare a pure, dry insoluble salt</li> <li>• Predict what precipitates will be formed in reactions</li> </ul>	<p>Method for preparing a pure, dry soluble salt</p>	<p>Exam Qs</p>

**Resources to support:**  
[www.bbc.co.uk/bitesize](http://www.bbc.co.uk/bitesize)  
[www.getrevising.com](http://www.getrevising.com)  
[Tassomai](http://Tassomai)

Social, Moral, Spiritual, Cultural and British Values linked to this learning programme:  
 Students will be aware at the dangers of acids and alkalis – this includes making them aware of the increased incidents of acid attacks in the UK. Students will have to work together to carry out practical investigations promoting social skills.

**Assessment: All students will complete at least 1 diagnostically marked 6-mark exam question on Natural Selection**