

Subject	Year	Term												
<b>SCIENCE</b>	<b>8</b>	<b>2</b>												
Topic														
<b>Biology – Adaptations &amp; Inheritance, Chemistry – Acids &amp; Alkalis, Physics – Electricity &amp; Magnetism</b>														
Content (Intent)														
<p><b>Prior Learning (Topic)</b>      Health and Lifestyle, Periodic Table and Reactions, Space</p> <p>Students will have a basic KNOWLEDGE of the series and parallel circuits and how acids and alkalis react to make salts. Students will UNDERSTAND that animals and plants adapt to their environments in order to survive and to prevent extinction of their species.</p> <p>Students will have the SKILLS needed to identify acids and alkalis through experimentation. Students will learn to use continuous and discontinuous variation and relevant data collected from observations.</p>														
<p><b>Future Learning (Topic)</b>      Ecosystem processes, Metals and Acids and Motion and Pressure</p>														
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)													
<p><b>Biology</b> - There will be a sequence of lessons which include: variation, competition and adaptations, inheritance, natural selection, extinction, continuous and discontinuous variation.</p> <p><b>Physics</b> - There will be a sequence of lessons which include: series and parallel circuits, circuit symbols, potential difference, resistance, magnets and electromagnets.</p> <p><b>Practical Skills</b> – Creating a series and parallel circuit, collating data from observations, testing predictions and identify variables.</p>	<p><b>Formative Feedback Task (End of Unit tests)</b></p> <p>Pupils given formative feedback only on the topics of:            Biology – Adaptations and Inheritance            Chemistry – Acids and Alkalis            Physics – Electricity and Magnetism</p> <p><b>Assessment 2 (June) topics covering</b>            Summative assessment including:</p> <ul style="list-style-type: none"> <li>• Enquiry Process</li> <li>• Structure and Function of Organisms</li> <li>• Elements, Atoms and Compounds</li> <li>• Forces</li> </ul>													
<p><b>Chemistry</b> – There will initially be a sequence of lessons that cover: Acids and Alkalis, Neutralisation, Indicators, Making Salts, pH.</p> <p><b>Practical Skills</b> – Observations correctly recorded.</p> <p><b>Maths Skills</b> – Linear equations and significant figures.</p>	<p><b>All topics listed will also need to be recalled in:</b>  <b>Year 8 Assessment 2</b>  <b>Year 9 Assessment 1 and 2.</b>            Pupils given a percentage, formative feedback.</p>													
How can parents help at home?														
<p>Ensure all class work is completed and homework submitted on time.</p> <p>Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers.</p> <p>Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters.</p> <p>Ensure all pupils have all their resources required for science lessons, including knowledge organisers, exercise books, pens and calculators</p>														
Helpful further reading/discussion (including Reading and Vocabulary Lists)														
<p><b>Reading</b></p> <p>Use the Educake online learning platform  <a href="http://www.educake.co.uk/">www.educake.co.uk/</a>            Use BBC bitesize  <a href="https://www.bbc.com/bitesize/levels/z4kw2hv">https://www.bbc.com/bitesize/levels/z4kw2hv</a>            Use and review the Knowledge Organisers used in class.</p>	<p><b>Vocabulary Lists:</b></p> <table style="width: 100%; border: none;"> <tr> <td>Natural Selection</td> <td>Voltmeters</td> </tr> <tr> <td>Continuous</td> <td>Indicators</td> </tr> <tr> <td>Discontinuous</td> <td>Neutralisation</td> </tr> <tr> <td>Potential Difference</td> <td>pH</td> </tr> <tr> <td>Electromagnets</td> <td></td> </tr> <tr> <td>Ammeter</td> <td></td> </tr> </table>		Natural Selection	Voltmeters	Continuous	Indicators	Discontinuous	Neutralisation	Potential Difference	pH	Electromagnets		Ammeter	
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