

Subject	Year	Term
<b>SCIENCE</b>	<b>8</b>	<b>1</b>
Topic		
<b>Biology – Health and Lifestyle, Chemistry –Periodic Table and Reactions, Physics – Space</b>		
Content (Intent)		
<p><b>Prior Learning (Topic)</b>      Reproduction, The Earth and Waves</p> <p>Students will have the KNOWLEDGE of chemical reactions as the rearrangement of atoms representing chemical reactions using formulae and equations and how different groups in the periodic table react. Students will have the ability to recall food tests and enzymes and bacteria that assist digestion.</p> <p>Students will UNDERSTAND the principle of how night and day and the seasons occur on Earth. They will also be able to link the effects of smoking, drugs and unhealthy diets on health, respiration and digestion processes.</p> <p>Students will use their practical SKILLS to set up and observe simple chemical reactions and food tests.</p>		
<p><b>Future Learning (Topic)</b>      Adaptations and Inheritance, Acids and Alkalis, Electricity and Magnetism</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; drugs, alcohol, smoking, food tests, the digestive system, nutrients, an unhealthy diet and enzymes/bacteria in digestion.</p> <p><b>Physics</b> - There will be a sequence of lessons which include the following themes: the night sky, the solar system, the Earth and the Moon.</p> <p><b>Practical Skills</b> – To make observations and collate data over a series of experiments.</p>	<p><b>Formative Feedback Task (End of Unit tests)</b></p> <p>Pupils given formative feedback only on the topics of: Biology – Health and Lifestyle Chemistry – Periodic table and reactions Physics – Space</p>	
	<p><b>Assessment 1 (December)</b> Summative assessment including:</p> <ul style="list-style-type: none"> <li>• Space</li> <li>• Health and Lifestyle</li> <li>• Reproduction</li> <li>• Earth</li> <li>• Waves</li> </ul>	
	<p><b>All topics listed will also need to be recalled in: Year 9 Assessment 1 and 2.</b></p>	
<p><b>Chemistry</b> - There will be a sequence of lessons that cover: Chemical symbols and equations, reactions of metals and non-metals, conservation of mass, group 1,7,0, combustion, thermal decomposition and exothermic/endothermic reactions.</p> <p><b>Practical Skills</b> – Observations correctly recorded.</p> <p><b>Maths Skills</b> – Linear equations when calculating conservation of mass and ratios when balancing equations.</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> 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> <p>Bile Carbohydrase Catalyst Lipase Lipids Protase</p>	<p>Halogens Alkali Metals Noble gases Exothermic Endothermic Thermal Decomposition Villi</p>