



Subject		Year	Term																
Biology		Year 9	3																
Topic																			
The Body, Health and Lifestyle																			
Content (Intent)																			
Prior Learning (Topic)		Cell Division and Stem Cells																	
<p>Students will have learnt SKILLS including investigating the effect of antiseptics or antibiotics on bacterial growth using agar plates and measuring zones of inhibition.</p> <p>Students will have learnt and built upon their KNOWLEDGE about the concept of cell division and how mitosis is important in the growth and development of multicellular organisms.</p> <p>Students will have UNDERSTOOD the roles of stem cells in embryos, in adult animals and in the meristems in plants.</p>																			
Future Learning (Topic)		GCSE Unit 3 Immunity and Response																	
What Knowledge and Skills will be taught (Implementation)		How will your understanding be assessed & recorded (Impact)																	
<p>Knowledge –The organs of the digestive system work together to provide the body with nutrients. The types of enzyme, how they act and their importance.</p> <p>The respiratory system provides the body with oxygen and removes carbon dioxide and how these materials are moved around the body in the blood by the circulatory system. To identify coronary heart disease treatments and the impact of poor lifestyle choices on non-communicable disease.</p> <p>Practical activity: use qualitative reagents to test for a range of carbohydrates, lipids and proteins.</p> <p>Practical activity: investigate the effect of pH on the rate of reaction of amylase enzyme.</p> <p>Maths Skills – Using ratio and fractions. Calculating rate, graph drawing, means.</p> <p>Interleaving Topics Year 8 Health and Lifestyle and Cells, Structure and Transport – Key Terms and concepts will be reviewed prior to the start of such as cell structure, specialised cells, transport in cells, digestion, respiration and lung structure.</p>		<p>Formative Feedback Task (End of Unit tests)</p> <p>Pupils given formative feedback on: Biology – The Body Health and Lifestyle</p> <p>Assessment 2 (June): Summative assessment including:</p> <ul style="list-style-type: none"> • Cell Division and Stem Cells • Cells and Transport <p>Cumulative assessment will include Cells from Years 7 and 8</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, exercise books, pens and calculators</p>																			
Helpful further reading/discussion (including Reading and Vocabulary Lists)																			
<p>Reading</p> <p>Resources on Teams</p> <p>EDUCAKE online learning platform.</p> <p>Glossaries</p>		<p>Vocabulary Lists</p> <table border="0"> <tr> <td>Enzyme</td> <td>Aorta</td> </tr> <tr> <td>Carbohydrase</td> <td>Vena Cava</td> </tr> <tr> <td>Amylase</td> <td>Pulmonary Artery</td> </tr> <tr> <td>Protease</td> <td>Pulmonary Vein</td> </tr> <tr> <td>Lipase</td> <td>Valves</td> </tr> <tr> <td>Lipids</td> <td>Artery</td> </tr> <tr> <td>Bile</td> <td>Vein</td> </tr> <tr> <td>Emulsify</td> <td>Capillary</td> </tr> </table>		Enzyme	Aorta	Carbohydrase	Vena Cava	Amylase	Pulmonary Artery	Protease	Pulmonary Vein	Lipase	Valves	Lipids	Artery	Bile	Vein	Emulsify	Capillary
Enzyme	Aorta																		
Carbohydrase	Vena Cava																		
Amylase	Pulmonary Artery																		
Protease	Pulmonary Vein																		
Lipase	Valves																		
Lipids	Artery																		
Bile	Vein																		
Emulsify	Capillary																		