



Subject	Year	Term										
Biology	9	2										
Topic												
Cells (continued)												
Content (Intent)												
Prior Learning (Topic)	Cells											
<p>Students will have learnt SKILLS including basic microscopy and drawing plant and animal cells. Carrying out practicals safely to obtain reliable results.</p> <p>Students will have learnt and built upon their KNOWLEDGE about the concept of cells, how they are differentiated to carry out their functions, how osmosis and diffusion occur and their definitions.</p> <p>Students will have UNDERSTOOD and can explain the osmosis required practical, the difference between active transport and osmosis, how cells divide (mitosis), the cell cycle and the uses of stem cells and meristems.</p>												
Future Learning (Topic)	Organisation											
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)											
Knowledge Cell Biology - Prokaryotes and eukaryotes, Cell specialization and differentiation, Microscopes and Magnification (Required practical), Using microscopes, Diffusion, Adaptations to diffusion, Osmosis Practical (Required practical) Maths Skills – data and graph interpretation	Key Piece of work (Homework) Pupils given a percentage and formative feedback provided. End of topic test Pupils given a percentage, formative feedback and GCSE equivalent grade. Year 9 end of term 2 and end of year exams Pupils given a percentage, formative feedback and GCSE equivalent grade.											
Knowledge Cell Biology - Osmosis and Active Transport, Chromosomes and mitosis, cell cycle, stem cells and meristems. (Higher sets only) Binary Fission, Required practical activity: investigate the effect of antiseptics or antibiotics on bacterial growth using agar plates and measuring zones of inhibition.	Key Piece of work (Homework) Pupils given a percentage and formative feedback provided. End of topic test Pupils given a percentage, formative feedback and GCSE equivalent grade. Year 9 end of term 2 and end of year exams Pupils given a percentage, formative feedback and GCSE equivalent grade.											
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)												
Reading AQA revision guides AQA revision cards EDUCAKE online learning platform. GCSE POD BHHS Knowledge organisers	Vocabulary Lists <table border="0"> <tr> <td>Eukaryotic</td> <td>Ribosomes</td> </tr> <tr> <td>Plasmid</td> <td>Differentiation</td> </tr> <tr> <td>Prokaryotic</td> <td>Mitosis</td> </tr> <tr> <td>Sub-Cellular Structures</td> <td>Stem Cell</td> </tr> <tr> <td>Active Transport</td> <td>Osmosis</td> </tr> </table>		Eukaryotic	Ribosomes	Plasmid	Differentiation	Prokaryotic	Mitosis	Sub-Cellular Structures	Stem Cell	Active Transport	Osmosis
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