

Curriculum Overview – Year 10 Biology

Unit Title	Learning	How can parents best support?
B1 Cell Biology	<p>After having reviewed relevant content from Key stage 3 students will study the following;</p> <ul style="list-style-type: none"> • Cell structure • Animal and plant cells • Eukaryotes and prokaryotes • Cell specialisation and differentiation • Microscopy and calculating magnification • Culturing micro-organisms (biology only) • Chromosomes, mitosis and the cell cycle • Diffusion, osmosis and active transport in cells. 	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below https://www.bbc.co.uk/bitesize/topics/z2s8v9g</p> <p>Use the knowledge organiser to learn the meanings of essential keywords</p>
B2 Organisation	<p>After having reviewed relevant content from key stage 3 students will study the following;</p> <ul style="list-style-type: none"> • Digestive system and enzyme action • Blood heart and circulation • Respiratory system • Health issues related to poor lifestyle • Non-communicable disease • Plant structures and transport systems • Develop a range of practical skills 	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below https://www.bbc.co.uk/bitesize/topics/zwtcng8</p> <p>Use the knowledge organiser to learn the meanings of essential keywords</p>
B3 Infection and Response	<p>After having reviewed relevant content from Key stage 3 students will study the following;</p> <ul style="list-style-type: none"> • Communicable diseases • Viral, bacterial, fungal, protists diseases • Human defence systems • Vaccinations • Antibiotics and painkillers • Discovery and development of drugs 	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below https://www.bbc.co.uk/bitesize/topics/z9236yc</p> <p>Use the knowledge organiser to learn the meanings of essential keywords</p>

	<ul style="list-style-type: none"> • Monoclonal antibodies (biology only) • Uses of monoclonal antibodies (biology only) • Plant diseases (biology only) • Plant defence responses (biology only) 	
B4 Bioenergetics	<p>After having reviewed relevant content from Key stage 3 students will study the following;</p> <ul style="list-style-type: none"> • Photosynthesis • Aerobic and Anaerobic Respiration 	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below: https://www.bbc.co.uk/bitesize/topics/zgr997h</p> <p>Use the knowledge organiser to learn the meanings of essential keywords</p>
B5 Homeostasis and Response	<p>After having reviewed relevant content from Key stage 3 students will study the following;</p> <ul style="list-style-type: none"> • Nervous system • Endocrine System • Factors that affect our Reaction Times • Blood Sugar Control and Diabetes • Menstrual cycle, Contraception and Fertility 	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below: https://www.bbc.co.uk/bitesize/topics/zyybb82</p> <p>Use the knowledge organiser to learn the meanings of essential keywords</p>