

Subject	Year	Term
<b>Biology</b>	<b>12</b>	<b>3</b>
<b>Topic</b>		
<b>Module 4 – Biodiversity, Evolution and Disease; Module 5 - Communication, homeostasis and energy;</b>		
<b>Content (Intent)</b>		
<b>Prior Learning (Topic)</b> Module 3- Exchange and transport Module 4 – Communicable disease. Pathogens, immune response, vaccinations, plant defense against disease. Module 5 – Photosynthesis.		
<b>Future Learning (Topic)</b> Unit 5- Communication, homeostasis and energy; Unit 6 – Genetics, evolution and ecosystems.		
<b>What Knowledge and Skills will be taught (Implementation)</b>		
<b>Module 4 – Communicable disease</b> Phagocytosis, primary and secondary responses Autoimmune disease, vaccinations and antibiotics. <b>Module 4 – Biodiversity and classification</b> Species and taxonomy, Biodiversity within a community, Investigating diversity, factors affecting biodiversity Genetic biodiversity, methods of maintaining biodiversity Evolution and variation. <b>Required practical – Investigating the effect of an abiotic factor on distribution of organism.</b> <b>Statistical tests – Chi Squared, Spearman’s rank, Student T test.</b>	End of topic test – A level grading and formative feedback given.  Homework – a mark, A level grade and formative feedback provided.  End of year exam – A level grading and formative feedback given.	
<b>Module 5 – Photosynthesis</b> Chloroplast structure, photosynthetic pigments, the light dependent and independent stages. Factors affecting rate of photosynthesis. <b>Required practical</b> - thin layer chromatography (TLC) to separate photosynthetic pigments	End of topic tests – A level grading and formative feedback given. Y13 Autumn term assessment – A level grading and formative feedback given.  Homework – a mark, A level grade and formative feedback given.	
<b>How can parents help at home?</b>		
Ensure all class notes are complete and homework submitted on time Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters. Encourage pupils to actively research future University courses and careers.		
<b>Helpful further reading/discussion (including Reading and Vocabulary Lists)</b>		
<b>Reading</b> OCR revision guides OCR CGP Text book Essential Maths Skills for AS/A level Biology CGP Resources on Teams <b>Websites</b> <a href="https://www.ocr.org.uk/qualifications/as-and-a-level/biology-a-h020-h420-from-2015/specification-at-a-glance/">https://www.ocr.org.uk/qualifications/as-and-a-level/biology-a-h020-h420-from-2015/specification-at-a-glance/</a>	<b>Vocabulary Lists</b> Speciation Abiotic Biotic Chi Squared Spearmans Rank Rhizobium Phagocytosis T Cells, B cells	Antigen Presenting Cells Opsonins Agglutinins Photophosphorylation Thylakoid Light dependent Calvin cycle Rubisco Antibodies/ antitoxins