



Year 10

Subject and Year Group	Autumn Year 10	Autumn 2 Year 10	Spring 1 Year 10	Spring 2 Year 10	Summer 1 Year 10	Summer 2 Year 10
Topic/Unit to be studied	Cell Biology	Organisation (Part 1)	Organisation (Part 2) PLUS Non-Communicable Diseases	Infection and response	Photosynthesis & Organisation (Part 3)	Respiration
Core Knowledge and skills	Animal & plant cells Specialised cells Prokaryotes Microscopy (RP) , inc. Calculations Diffusion Active transport Osmosis (RP) Mitosis Stem cells Differentiation <u>Key</u> (B) = Biology only / not in Combined Science (RP) = Required Practical	Cells, tissues, organs & organ systems Food Tests (RP) Digestive system Enzymes Factors affecting enzymes (RP) Bile / making digestion efficient	Blood Blood Vessels Heart, inc. Dissection CHD & stents Helping the heart Breathing & gas exchange Cancer Smoking Diet & Exercise Alcohol	Health & disease Pathogens Bacterial Growth (RP)(B) Preventing infection Viral infections Bacterial infections Fungi & Protists Human defences Plant defences (B) Vaccination Antibiotics & painkillers Developing drugs Monoclonal antibodies (B)	Photosynthesis Rate of photosynthesis (RP) How plants use glucose Maximising photosynthesis Transport in plants Transpiration	Aerobic respiration Response to exercise Anaerobic respiration Metabolism & liver
Assessment	End of Unit assessments including interleaving of previous topics (MCQ/short answer/long answer)	End of Unit assessments including interleaving of previous topics (MCQ/short answer/long answer)	End of Unit assessments including interleaving of previous topics (MCQ/short answer/long answer)	End of Unit assessments including interleaving of previous topics (MCQ/short answer/long answer)	End of Unit assessments including interleaving of previous topics (MCQ/short answer/long answer)	End of Unit assessments including interleaving of previous topics (MCQ/short answer/long answer)