

BIOLOGY

YEAR 9	Term 1	SB1: Key Concepts in Biology. Exploring Cell Structure and specialisation, Enzymes and enzyme action and Transporting substances including: Diffusion, Osmosis and Active transport.
	Term 2	SB2: Cellular control. Exploring Mitosis, Growth, Stem Cells and the Nervous system including; the Brain, the eye, nerve structure and reflex arc and brain and spinal cord damage.
	Term 3	SB5: Health and Disease. Exploring communicable and non-communicable diseases. Human and plant defences, immunisation and the effects of antibiotics.
	Term 4	SB3: Genetics. Exploring Meiosis, Inheritance, Alleles, Protein synthesis, mutations, multiple and missing genes and their effects on the body.
	Term 5	SB4: Natural and Artificial selection. Exploring Darwin's theory of evolution as well as selective breeding and genetic engineering and their effects on agriculture and medicine.
YEAR 10	Term 1	SB6: Plant. Exploring photosynthesis and factors that affect it, Plant adaptations and Plant hormones, their effects and uses. AND SB7: Hormones and communication. Exploring how hormones control blood sugar levels, the menstrual cycle and osmoregulation through negative feedback cycles as well as thermoregulation and the structure and function of the kidneys.
	Term 2	
	Term 3	SB8: Cellular Respiration. Exploring aerobic and anaerobic respiration and their effect on the body. As well as how the body is adapted for respiration including the adaptations of the lungs for gas exchange and the structure and function of the heart and blood vessels.
	Term 4	Paper 1 Revision: Revisiting the content from year 9 in preparation for a paper 1 mock exam at the end of term.
	Term 5	SB9: Ecosystems. Exploring interactions within the environment such as; interdependence, competition and parasitism and mutualism. Along with how human activity affects these interactions. As well as natural cycles such as the water, carbon and nitrogen cycles.
YEAR 11	Term 1	Revisiting Modules SB1-9 covered in year 9 and 10. Building understanding and confidence as well as challenging students with exam techniques and linking concepts from different modules.
	Term 2	
	Term 3	Race to the Line Revision: A series of lessons on each module where structured options are provided allow choice of level of work and content to focus on allowing flexibility in learning depending on the learners needs at this time. While still providing scaffolding and structure to help develop knowledge, understanding and exam technique.
	Term 4	F.A.C.E Revision: A series of high impact lessons that give the final push toward exam preparation focusing on Facts, Application, Consolidation and Exam Techniques.
	Term 5	Final revision push providing more independence to student to allow focus on area of most need and External End of Year Exams.
YEAR 12	Term 1	Module 2: Covering; Cell structure, Biological Membranes and Biological molecules
	Term 2	Module 2: Covering; Enzymes, Nucleotide and nucleic acids and cell division, cell diversity and cellular organisation.
	Term 3	Module 3: Covering; Exchanging surfaces, Transport in animals and transport in plants.
	Term 4	Module 4: Covering; Communicable disease, disease prevention and the immune system and Biodiversity.

	Term 5	Module 4: Covering; Classification and evolution. Revision and preparation for end of year internal assessments. Starting Module 5; Communication and Homeostasis.
YEAR 13	Term 1	Module 5: Covering; Communication and homeostasis, Excretion, Neuronal and hormonal communication and the start of animal and plant responses.
	Term 2	Module 5: Covering; The continuation of animal and plant responses, Photosynthesis and Respiration
	Term 3	Module 6: Covering; Cellular control, Patterns of inheritance, manipulating the genome and Ecosystems.
	Term 4	Module 6: covering; Cloning and biotechnology and Population and sustainability. Then Moving on to structured revision preparing for external exams, consolidating knowledge and understanding and building exam technique.
	Term 5	Final revision push and external exams.