Year 10 COMBINED Science - Biology Name:	
Sept - Oct	• Topic 7 – Hormones – An introduction • Topic 7 – Homeostasis • Topic 7 – Glucose regulation • Topic 7 - Diabetes • Topic 7 - Menstrual cycle • Topic 7 – Contraception • Topic 7 – Assisted Reproductive Technology • Topic 7 - Adrenaline and Thyroxine (Higher only) • ***Topic 7 test*** • Topic 8 - Surface area to volume ratio • Topic 8 - Lung structure and alveoli (dissection demo)
Nov - Dec	• Topic 8 - Blood + blood vessels structure and function • Topic 8 - Heart structure and function (dissection demo) • Topic 8 - Aerobic and anaerobic respiration • **Topic 8 – Core practical: respirometer** • Topic 8 – Exercise and Heart Rate • Topic 8 – Cardiac output calculations • ***Topic 8 test*** • Topic 6 – Photosynthesis • Topic 6 – Limiting Factors • Topic 6 – Pondweed practical
Jan - Feb	• Topic 6 – Limiting Factors • Topic 6 – Pondweed practical • **Topic 6 – Core practical: algal balls** • **Topic 6 – Core practical: Osmosis core practical** • Topic 6 – Microscopy – Stomata, root hair cells, xylem • Topic 6 – Transpiration • Topic 6 – Transpiration • Topic 6 – Measuring transpiration and calculations • Topic 6 – Translocation • Topic 9 – Ecosystems – Key terms
Feb - March	• Topic 9 – Food chains and energy transfer • Topic 9 – Biotic factors and communities • Topic 9 – Parasitism and Mutualism • ***Assessment 1*** • Topic 9 – Water cycle • Topic 9 – Carbon cycle • Topic 9 – Nitrogen cycle • Topic 9 – Abiotic factors • Topic 9 – Keys and random sampling

April - May	• **Topic 9 – Core practical – transect** • Topic 9 – Human impact on Biodiversity • Topic 9 – Human impact on Biodiversity • Topic 9 – Conservation • Topic 9 – Reforestation • Topic 5 – Health and Disease introduction • Topic 5 – STIs • Topic 5 – Human physical and chemical barriers
June – July	• Topic 5 – Specific immune response • Topic 5 – Immunisation • Topic 5 – Developing new medicines • ***Assessment 2*** • Topic 5 – Non-communicable diseases (part 1) • Topic 5 – Non-communicable diseases (part 2) • Topic 5 – cardiovascular disease and treatment

Assessment summary:
Oct 2025 - Topic 7 test (Animal coordination, control and homeostasis)
Dec 2025 - Topic 8 test (Exchange and transport in animals)
March 2026 – Assessment 1
June 2026 - Assessment 2

Year 11 COMBINED Biology	Name:
Sept - Oct	• Topic 3 – Variation • Topic 3 – DNA structure and function • Topic 3 – DNA extraction practical • Topic 3 – Genetics fundamentals • Topic 3 – Monohybrid inheritance • Topic 3 – Inheritance of gender • Topic 3 – Human Genome Project • Revision
Nov - Dec	*Assessment 1* • Topic 2 – Mitosis • Topic 2 – Meiosis • Topic 2 – Sexual and asexual reproduction • Topic 2 – Stem cells • Topic 2 – Growth in animals • Topic 2 – Growth in plants • Topic 2 – The nervous system • Topic 2 – Synapses • Topic 2 – Reflex arc
Jan - Feb	• *Topic 2 test* • Topic 4 – Classification • Topic 4 – Evolution by natural selection • Topic 4 – Evidence of human evolution *Assessment 2*
Feb - March	• Topic 4 – Selective breeding • Topic 4 – Genetic engineering • *Topic 4 test* • Revision
April - May	• Revision for summer exams
Nov 2025 - Assessment 1	
Jan 2026 - Topic 2 test (Cells and control)	
Feb 2026 - Assessment 2	
April 2026 - Topic 4 test (Natural selection and genetic modification)	