

Year 10 TRIPLE - Biology Name:	
Sept - Oct	<ul style="list-style-type: none"> • Topic 7 - Hormones introduction • Topic 7 - Homeostasis and Thermoregulation • Topic 7 – Glucoregulation • Topic 7 – Diabetes • Topic 7 - Menstrual cycle - Consolidation of hormonal control • Topic 7 – Fertilisation and contraception • Topic 7 – ART • Topic 7 - Adrenaline and thyroxine (Higher only) • Topic 7 - Kidneys, nephron and urea • Topic 7 - ADH and water reabsorption • Topic 7 - Kidney failure, dialysis and transplants
Nov - Dec	<ul style="list-style-type: none"> • Topic 7 test • Topic 8 - Efficient transport and exchange - SA:VOL • Topic 8 - Lung structure (demo dissection) and alveoli structure • Topic 8 - Fick's law • Topic 8 - Blood and blood vessels • Topic 8 - The heart (demo dissection) • Topic 8 - Respiration (Aerobic and anaerobic) • Topic 8 - Exercise and heart rate, CO, SV and HR • Topic 8 - Core practical – respirometer • Topic 1 - Core practical - Biochemical tests (topic 1) • Topic 1 - Core practical - Biochemical tests (topic 1) • Topic 1 – Calorimetry
Jan - Feb	<ul style="list-style-type: none"> • Topic 8 test • Topic 6 - Photosynthesis intro • Topic 6 - Leaf adaptations • Topic 6 - Limiting Factors • Topic 6 – Investigating factors affecting photosynthesis • Topic 6 - Core practical - algal balls • Topic 6 - Transpiration, xylem and root hair cells • Topic 1 – Core practical – Osmosis • Topic 1 – Core practical – Osmosis - Evaluation
Feb - March	<ul style="list-style-type: none"> • Topic 6 - Transpiration, xylem and root hair cells • Topic 6 - Factors that affect transpiration rate (demo) • Topic 6 - Plant adaptations • Topic 6 - Phloem and translocation • Topic 6 - Phototropism and gravitropism • Topic 6 - Commercial uses of plant hormones • Topic 6 test

<p>April - May</p>	<ul style="list-style-type: none"> • Topic 9 – Ecosystems introduction • Topic 9 – Food chains and energy transfer • Topic 9 – Biotic factors and communities • Topic 9 – Parasitism and Mutualism • Topic 9 – Abiotic factors • Topic 9 – Core practical – transect • Topic 9 – Keys and random sampling • Topic 9 – Living indicators of pollution • Topic 9 – Water cycle • Topic 9 – Carbon cycle
<p>June – July</p>	<ul style="list-style-type: none"> • Topic 9 – Decay • <i>Y10 mocks</i> • Topic 9 – Nitrogen cycle • Topic 9 – Human impact on Biodiversity
<p>Test 1 – (Topic 7 – Animal Co-ordination, Control and Homeostasis)</p>	
<p>Test 2 – (Topic 8 – Exchange and Transport in Animals)</p>	
<p>Test 3 – (Topic 6 – Plants and Photosynthesis)</p>	
<p>YEAR 10 EXAM</p>	

Year 11 TRIPLE Biology

Name:

Sept - Oct	<ul style="list-style-type: none">• Topic 5 – Health and Disease introduction• Topic 5 – STIs• Topic 9 test• Topic 5 – Life cycle of a virus• Topic 5 – Plant defences• Topic 5 – Plant diseases (Higher only)• Topic 5 – Human physical and chemical barriers• Topic 5 – Specific immune response• Topic 5 – Immunisation and herd immunity• Topic 5 – Core practical – effectiveness of antimicrobials• Topic 5 – Developing new medicines• Topic 5 – Monoclonal antibodies (Higher only)• Topic 5 – Non-communicable diseases (part 1)• Topic 5 – Non-communicable diseases (part 2)• Topic 5 – Cardiovascular disease and treatment
Nov - Dec	<ul style="list-style-type: none">• Topic 3 – Variation• Topic 3 – DNA structure and function• Topic 3 – DNA extraction practical• Topic 5 test• Topic 3 – Transcription and Translation• Topic 3 – Genetic variants and gene expression• Topic 3 – Genetics fundamentals• Topic 3 – Mendel and Monohybrid inheritance• Topic 3 – Mutations• Topic 3 – Inheritance of blood type• Topic 3 – Inheritance of gender and sex-linked disorders• Topic 3 – Human Genome Project• <i>Y11 Mock 1</i>
Jan - Feb	<ul style="list-style-type: none">• Topic 2 – Mitosis• Topic 2 – Viewing mitosis with a microscope• Topic 2 – Mitosis and cancer• 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

	<ul style="list-style-type: none"> • Topic 2 – Brain structure and imaging • Topic 2 – Brain and spinal cord problems • <i>Y11 Mocks 2</i>
Feb - March	<ul style="list-style-type: none"> • Topic 2 – The eye (structure and function) • Topic 2 – The eye (eyesight problems and correction) • Topic 4 – Classification • Topic 4 – Evidence of human evolution • Topic 4 – Evolution by natural selection • Topic 4 – Selective breeding • Topic 2 test • Topic 4 – Genetic engineering • Topic 4 – Tissue Culture • Topic 4 – Agricultural solutions
April - May	<ul style="list-style-type: none"> • Revision! • Topic 4 test • Topic 3 test
Test 1 – (Topic 9 –Ecosystems and material cycles)	
Test 2 – (Topic 5 – Health, disease and the development of medicines)	
MOCKS 1	MOCKS 2
Test 3 – (Topic 2 – Cells and control)	
Test 4 – (Topic 4 - Natural selection and genetic modification)	
Test 5 – (Topic 3 - Health, disease and the development of medicines)	