

	Term 1		Term 2		Term 3	
Key focus	Unit 5: Photosynthesis and Respiration revision Unit 7: Populations in ecosystems	Unit 5: Energy and Ecosystems, Nutrient Cycles Unit 6: Organisms respond to changes in their internal and external environments	Unit 7: Genetics, populations, evolution and ecosystems	Unit 8: The control of gene expression	Exam Revision	
Purpose of the scheme	The purpose of this course is to develop a deep understanding of the intricacies of the living world and its interaction with other systems, including its impact on us and us on it.					
Pre read (suggested)	ENTIRE topic 5 - A level Biology (AQA) Learn or revise the WHOLE topic to get you exam ready - YouTube	AQA A-level Biology Revision - PMT (physicsandmathstutor.com)	Topic 7 - ENTIRE topic for A Level Biology. Learn or revise the whole topic with me - YouTube AQA Biology A-level Topic 7: Genetics, Populations, Evolution & Ecosystems Revision - PMT (physicsandmathstutor.com)	Topic 8 A level Biology - Learn the ENTIRE gene expression topic for A level in an hour! - YouTube AQA Biology A-level Topic 8: The Control of Gene Expression Revision - PMT (physicsandmathstutor.com)	New Scientist Science news and science articles from New Scientist	
Key knowledge and skills	a) Required practical skills b) Sampling Biochemical processes	a) Nutrient cycles b) Energy transfer in ecosystems c) Nerve impulses and synapses d) Homeostasis Negative feedback	a) Inheritance b) Speciation c) Hardy Weinberg theory	a) Stem cells b) Gene expression c) Genome projects d) Cancer e) DNA technologies	a) Revision skills b) Essay practice	
Key words/ vocabulary	Photoionisation Phosphorylation Mark-release-recapture	GPP, NPP Ammonification Denitrification Kinesis, taxis, tropism Resting and action potential Glycogenesis, glycogenolysis, gluconeogenesis Osmoregulation	Dihybrid Linkage Epistasis Hardy Weinberg Allopatric, sympatric speciation	Totipotent, multipotent, pluripotent, unipotent Epigenetics Methylation cDNA PCR VNTRs	Revision	
Exam board	AQA A-Level Biology					
End point	A-Level Biology Exam Paper 1, 2 and 3	A-Level Biology Exam Paper 1, 2 and 3	A-Level Biology Exam Paper 1, 2 and 3	A-Level Biology Exam Paper 1, 2 and 3	A-Level Biology Exam Paper 1, 2 and 3	
Assessment method	<ul style="list-style-type: none"> • PRP Assessment • Intervention 	<ul style="list-style-type: none"> • PRP Assessment • Mock assessment • Intervention 	<ul style="list-style-type: none"> • PRP Assessment • Classroom Mocks • Intervention 	<ul style="list-style-type: none"> • PRP Assessment • Mock assessment • Intervention 	External Exams	

Wider reading / links / research	PE/Sport – respiration and exercise Geography – human impact on ecosystems	Food technology – diabetes and nutrition	Maths – statistical tests Geography – human impact on ecosystems	PER – Ethics of stem cells use and genetic technologies		
Careers links	Field ecologist Conservation management Nutritionist Sports scientist Marine biologist	Nutritionist Neurologist Cardiologist Drug development Pharmacist Osteopath Endocrinologist	Geneticist Statistician Marine biologist Zoologist Scientific researcher	Genetic counsellor Forensic scientist Genetics scientist Bioinformatician Clinical scientist Oncologist Fingerprint officer		