

Scheme of Learning – Long Term Planning

Subject: BIOLOGY

Key stage: 5

Year	Autumn Term		Spring Term		Summer Term	
	Teacher 1	Teacher 2	Teacher 1	Teacher 2	Teacher 1	Teacher 2
12	Autumn 1 Topic1 Biological molecules <ul style="list-style-type: none"> • Monomers & polymers • Carbohydrates • Lipids • Proteins, including enzymes 	Topic2 Cells <ul style="list-style-type: none"> • Cell structure 	Spring 1 Topic 4 Genetic information & variation <ul style="list-style-type: none"> • DNA, genes & chromosomes • DNA and protein synthesis 	Topic 3 Exchange of substances <ul style="list-style-type: none"> • surface area to volume ratio • Gas exchange • Digestion and absorption 	Summer 1 Revision/Maths and HSW Booster lessons	
	Autumn 2 <ul style="list-style-type: none"> • DNA and RNA • ATP • Water • Inorganic Ions <p style="text-align: center;">end of topic 1 test</p>	<ul style="list-style-type: none"> • Mitosis • Transport across cell membranes • Cell recognition and the immune system <p style="text-align: center;">end of topic 2 test</p>	Spring 2 <ul style="list-style-type: none"> • Species and taxonomy • Biodiversity within a community • Investigating diversity <p style="text-align: center;">end of topic 4 test</p>	<ul style="list-style-type: none"> • Mass transport in animals • Mass transport in plants <p style="text-align: center;">end of topic 3 test</p>	Summer 2 <p style="text-align: center;">Mock AS Exam</p> Start "Populations in Ecosystems" section in A2 Topic 7	
13	Autumn 1 Topic 5 Energy transfers in and between organisms <ul style="list-style-type: none"> • Respiration • Photosynthesis 	Topic 7 Genetics, populations, evolution & ecosystems <ul style="list-style-type: none"> • Finish Populations in Ecosystems • Inheritance 	Spring 1 Topic 6 Organisms respond to changes in their internal & external environment <ul style="list-style-type: none"> • Stimuli and response • Nervous coordination 	Topic 8 Control of Gene expression <ul style="list-style-type: none"> • Gene mutations • Control of gene expression 	Summer 1 Revision	
	Autumn 2 <ul style="list-style-type: none"> • Energy and ecosystems • Nutrient cycles 	<ul style="list-style-type: none"> • Populations <p style="text-align: center;">Mock A level Paper 1</p>	Spring 2 <ul style="list-style-type: none"> • Skeletal Muscles • Homeostasis 	<ul style="list-style-type: none"> • Using genome projects • Gene technologies <p style="text-align: center;">Mock A level Papers 2 & 3</p>	Summer 2 Study Leave	