

Subject	Biology		
	Interpretation of National Curriculum into Year group Endpoints		
Year	Term 1	Term 2	Term 3
13	<p>Students will describe and explain the concepts of:</p> <p>3.5 Energy transfers in and between organisms</p> <ul style="list-style-type: none"> • Photosynthesis and respiration • Energy and ecosystems, nutrient cycles <p>3.6 Organisms respond to changes in their internal and external environments</p> <ul style="list-style-type: none"> • Stimuli and responses, receptors, control of heart rate - Homeostasis and negative feedback, control of blood glucose, control of water potential 	<p>Students will describe and explain the concepts of:</p> <p>3.6 Organisms respond to changes in their internal and external environments</p> <ul style="list-style-type: none"> • Nervous coordination, synaptic transmission and muscle contraction <p>3.7 Genetics, populations, evolution and ecosystems</p> <ul style="list-style-type: none"> • Inheritance, populations, evolution, speciation and populations in ecosystems. <p>3.8 The control of gene expression</p> <ul style="list-style-type: none"> • Mutations, gene expression, transcription and translation, genome projects • Recombinant DNA technology, genetic fingerprinting. 	<p>Students will prepare for their final exams using past exam questions and papers.</p> <p>Students will be tutored on how to answer the 25 mark essay question in Paper 3.</p>