PCHS Curriculum Information - Year 13

Course Title: Biology Exam Board: AQA Specification Code: 7401

How will students be assessed?

Students will sit three two-hour external exams at the end of Year 13. During the course, along with other practical work, students will carry out 12 assessed practical's which will lead to the students being awarded their practical skills endorsement.

Biology Paper 1: (91 marks)

Students will complete short and long answer questions on the topic areas mainly from year 12. Questions will be knowledge based including a large proportion of knowledge application, as well as drawing on the practical work that students have completed throughout the course.

Biology Paper 2: (91 marks)

Students will complete short and long answer questions as well as a comprehension question on the topic areas from year 13. Questions will be knowledge based including a large proportion of knowledge application, as well as drawing on the practical work that students

have completed throughout the course.

Biology Paper 3: (78 marks)

Students will complete structured questions including practical techniques, critical analysis and an essay.

KEY CONTENT	
Half Term 1	Energy transfers
Genetics, populations, evolution and	Photosynthesis (catch up from the
ecosystems	summer)
Populations in ecosystems	
Assessment on population	Respiration (catch up from the summer)
Required practical 12	
	Assessment on photosynthesis
Organisms respond to changes in their internal	
and external environment	Assessment on respiration
Survival and response	
Receptors	
Control of heart rate	
Deguired practical 10	
Required practical 10	

Half Term 2 Organisms respond to changes in their internal and external environment Nerve impulses Synaptic transmission Skeletal muscles Assessment on Nervous Coordination	Genetics, populations, evolution and ecosystems Inheritance Populations Evolution may lead to speciation Assessment on evolution and inheritance
Half Term 3 Homeostasis Principles of homeostasis and negative feedback Control of blood glucose concentration Control of blood water potential Required practical 11 Assessment on Homeostasis	The control of gene expression Alteration of the sequence of bases in DNA can alter the structure of proteins Gene expression is controlled by a number of features Most of a cells DNA is not translated Regulation of transcription and translation Gene expression and cancer Using genome projects
Half Term 4 Energy transfers Energy and ecosystems Nutrient cycles Assessment on energy and ecosystems	Gene technologies Recombinant DNA technology Identification and diagnosis of heritable conditions Genetic fingerprinting Assessment on gene expressions and technologies
Half Term 5 Exam preparation	