

## Y10 End of Year Exam Preparation: *Combined Science*

### Exam(s):

Exam 1: *Biology 60 marks (70 minutes)*

Exam 2: *Physics 60 marks (70 minutes)*

Revision Topic List - Biology (Foundation)	
Content	Skills
Microscopes	Magnification calculations
Experiments on rate of photosynthesis	Drawing cell diagrams
Hormones and the menstrual cycle	Unit conversions
Contraception	
Circulatory system - blood vessels	
Heart	
Components of blood	
Respiration - aerobic and anaerobic	
Investigating respiration*	
Eutrophication	

Revision Topic List - Biology (Higher)	
Content	Skills
Root hair cell	Magnification calculations
Osmosis	Percentages
Menstrual cycle	Unit conversions
Gas exchange in lungs	
Components of blood	
Sampling techniques	
Abiotic factors	
Parasites and mutualists	
Nitrogen cycle	
Carbon cycle *	

<b>Revision Topic List - Physics (Foundation)</b>	
<b>Content</b>	<b>Skills</b>
Circuit diagrams	Power in transformers
Magnetic fields and materials	Specific heat capacity
National grid and transformers	Density
Electrical safety and fuses	Power
Current and resistance in circuits	Charge
State of matter	Efficiency
Absolute zero	

<b>Revision Topic List - Physics (Higher)</b>	
<b>Content</b>	<b>Skills/Calculations</b>
Current and resistance in circuits	Specific latent heat
Explaining density	Specific heat capacity
Magnetic fields and forces	Density
Experiments involving GPE	Magnetic flux density
Efficiency	Work done
Experiment to determine SHC of water*	Kinetic Energy
Gas pressure	GPE
	Charge
	Efficiency