

Y10 End of Year Exam Preparation: *Triple Science*

Exam(s):

Exam 1: *Biology 100 marks (105 minutes)*

Exam 2: *Chemistry 100 marks (105 minutes)*

Exam 3: *Physics 100 marks (105 minutes)*

Revision Topic List - Biology	
Content	Skills
Enzymes and pH	Magnification calculations
Osmosis in potatoes	Punnett squares
Adaptations of sperm cells	Analysing data in tables
Mitosis	Calculating percentages
Stem cells	
Reflex arc *	
Eye defects	
The Brain	
Work of Mendel	
Protein synthesis	
Mutations	
Sex linked genetic disorders	
Sex determination	
Natural selection	
Selective breeding	
Cloning/Tissue culture	
Healthy Lifestyles	
Pathogens	
Antibiotics (including core practical) *	
Monoclonal antibodies and pregnancy tests	

Revision Topic List - Chemistry	
Content	Skills
Atomic number and mass number	Balancing equations
Electrolysis	Atom economy and percentage yield
Acids and alkalis	Maximum mass
Neutralisation	Calculating number of atoms
Reactivity series	Concentration
Gas Tests	Molar volumes
Electrolysis core practical (non-inert electrodes)	
Titrations	
Copper sulfate core practical	
Particles arrangement and movement	
Redox reactions	
Chromatography	
Types of bonding (boiling points)*	
Distillation*	
Corrosion	
Pure and impure substances	
Metals and Alloys*	

Revision Topic List - Physics	
Content	Skills
Momentum	GPE and KE calculations
TIR/Critical angle/Lenses	Design an experiment to investigate acceleration *
Lifecycle of a star	Wave calculations
Nuclear reactors *	Planning investigations into effectiveness of insulation
Half life and nuclear equations	Percentages
Refraction	
Properties of EM waves	
Heat radiation	
Energy efficiency	