2024 Y11 Mock 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
Enzyme activity	Describing data in graphs
Osmosis	Magnification calculations
Microscopes	Inverse square Law
Cell structure	Punnett Squares
Asexual Reproduction	
DNA structure	
DNA extraction	
Work of Mendel	
Human Genome Project	
Human Evolution/Stone tools	
Causes of stomach ulcers	
Investigating antibiotics	
Lytic Cycle of a virus*	
Root hair cells	
Adaptations of a leaf	
Investigating rate of photosynthesis	
Plant hormones and phototropism	
Transpiration	
Hormones and menstrual cycle	
Contraception	

Assistive Reproductive Technologies*	
Glucoregulation	

Revision Topic List - Chemistry	
Content	Skills
Rates of Reaction	Balancing Equations
Alkali Metals	Deducing Molecular Formula
Isotopes	Calculating Energy Changes for Reactions
Homologous series	Explaining Boiling Points
Combustion*	Redox Reactions
Halogens*	Calculating RAM
Reaction Profile Diagrams	
Endothermic Reactions	
Explaining Boiling Points	
Fractional Distillation	

Revision Topic List - Physics	
Content	Skills
Charges and electric fields	Acceleration equations
Current and resistance in parallel circuits	Momentum and force calculations
Distance time graphs	Half life calculations
Factors affecting collision force	Magnetic flux density calculations
PET scanners	Moments calculations
Radiotherapy	Work done calculations
Irradiation and contamination	GPE calculations
Half life	Describing graphs
Magnetic field of the Earth	
Fleming's left hand rule	
Moments of levers and gears	
Work done	
Efficiency of motors	
Circuit diagrams	
Potential difference	
Centripetal force	
Speed vs velocity	
Conservation of momentum and energy*	
Ultraviolet waves	
Transverse waves	
SONAR*	