2025 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
Food tests	Punnet Squares
Mitosis	
	Using a microscope
Spread of disease	Designing an experiment
Methods of transport in cells	Interpreting data in tables and graphs
Work of Mendel	
Sexual/asexual reproduction	
Human Evolution	
Classification	
Structure of a leaf	
Transport in leaves	
CT/PEt scans	
Monoclonal Antibodies*	
Neurones	
Sex linked genetic disorders	
DNA - structure and extraction*	
Menstrual cycle	
Tissue culture	

Revision Topic List - Chemistry	
Content	Skills
Gas Tests	Calculating Number of Atoms
Noble Gases	Maximum Mass
Investigating Rates of Reaction	Calculating Concentration
Hydrocarbons	Calculating Empirical Formula
Dot and Cross Diagrams	Writing Ionic Equations
Polymers	Calculating Energy Changes
Carboxylic Acids	Calculating Molecular Formula
Alcohols	
Alkali Metals	
Energy Changes	
Allotropes of Carbon	
Combustion	
*Carbon Dioxide and the Atmosphere	
Halogens	
*Polymers and Life Cycle Assessments	

Revision Topic List - Physics	
Content	Skills
Density and pressure	P = p x g x h calcs
Using radioactivity	Half life calculations
Nuclear fission	Electrical power calcs
Positrons	Q = I x t calcs
Mains electricity in the home	Transformer calcs
Fuses	Vector diagrams
Static electricity	Density calcs
Cooling curves	Pressure calcs
Particle model of matter	Calculating area under a graph
Properties of matter (SLH,SHC, density)	
Transformers	
Diodes	
Split ring commutators	
Power of a lens	
Virtual and real images	
Temperature and radiation	
Hooke's Law	
Stars	

Nuclear fusion	
Big Bang theory*	
Upthrust	
Gears*	