

# COMBINED SCIENCE

BIOLOGY

CHEMISTRY

PHYSICS

REVISION

Each section in the booklet needs at least 30 minutes' revision.

Make a plan.

Try and stick to the plan.

Each paper is 1 hour 15 minutes' long

## BIOLOGY PAPER 1

TOPIC	Date of Revision	Done
<b>Cell Biology -</b>		
Plant and Animal Cells		
Microscopes		
Diffusion		
Osmosis		
Active Transport		
<b>Organisation -</b>		
Digestive System		
Heart		
<b>Infection and response -</b>		
Diseases		
Cancer		
Vaccination		
Drugs		
<b>Bioenergetics -</b>		
Photosynthesis		
Respiration		

## CHEMISTRY PAPER 1

TOPIC	Date of Revision	Done
<b>Atomic structure and the periodic table -</b>		
Atoms and Elements		
Compounds and Mixtures		
Isotopes		
History of the Atom and Periodic Table		
Group 1, Group 7, Group 0, Metals and non-metals		
<b>Bonding, structure, and the properties of matter -</b>		
Ionic Bonding		
Covalent Bonding		
Allotropes of Carbon		
Metallic Bonding		
States of Matter		
<b>Quantitative chemistry -</b>		
Relative Formula Mass		
Conservation of Mass		
Mole Calculations		
<b>Chemical changes -</b>		
Acids – Strong and Weak		
Alkalis and Bases		
Acid and Metal Reactions		
Redox Reactions		
Electrolysis		
<b>Energy changes -</b>		
Exothermic Reactions		
Endothermic Reactions		
Energy Graphs		
Bond energy		

# PHYSICS PAPER 1

TOPIC	Date of Revision	Done
<b>Energy -</b>		
Potential and Kinetic energy		
Work done and Energy Transfers		
Understanding Power		
Specific Heat Capacity		
Dissipation and energy efficiency		
Energy resources and global energy		
<b>Electricity -</b>		
Circuit components		
Series and Parallel circuits		
Electricity at home and transmitting electricity		
Calculating Power and energy transfers		
<b>Particle model of matter -</b>		
Solids, liquids, gas and density		
Changes of state and particle motion		
Internal energy and latent heat		
<b>Atomic structure -</b>		
Atomic structure		
Radioactive decay and background radiation		
Nuclear equations		
Half-life		
Hazards and uses of radiation		