

GCSE Science

Paper 1 ONLY

Below is a learning list of topics that will be examined in Paper 1

Working Scientifically	R	A	G
The Scientific Method			
Designing & Performing Experiments			
Presenting Data			
Conclusions, Evaluations and Units			

BIOLOGY		R	A	G
Topic 1: Cell Biology	1.1 Cell structure			
	1.2 Cell Division			
	1.3 Transport in cells			
Topic 2: Organisation	2.1 Principles of Organisation			
	2.2 Enzymes			
	2.3 Circulatory system			
	2.4 Non-communicable diseases			
	2.5 Plant tissues, organs & systems			
Topic 3: Infection and Response	3.1 Infection and response			
	3.2 Monoclonal antibodies			
	3.3 Plant disease			
Topic 4: Bioenergetics	4.1 Photosynthesis			
	4.2 Respiration			

CHEMISTRY		R	A	G
Topic 1: Atomic Structure	1.1 Atoms & Elements			
	1.2 Reaction of elements			
	1.3 The periodic table			
	1.4 Mixtures			
Topic 2: Bonding Structure and the Properties of matter	2.1 Chemical Bonds			
	2.2 Molecular substances			
	2.3 Giant covalent substances			
	2.4 Metallic substances			
	2.5 types of bonding and structures			
	2.6 Nanoscience			
	2.7 The different forms of carbon			
Topic 3: Quantitative Chemistry	3.1 relative mas and moles			
	3.2 Conservation of mass			
	3.3 Reacting masses			
	3.4 Yield and atom economy			
	3.5 Gas volumes			
	3.6 The concentration of solutions			
Topic 4: Chemical Changes	4.1 reactions of metals			
	4.2 Extraction of metals			
	4.3 Reactions of acids			
	4.4 Making salts			
	4.5 Electrolysis			
Topic 5: Energy Changes	5.1 Exothermic & Endothermic Reactions			
	5.2 Chemical Cells & Fuels Cells			

PHYSICS		R	A	G
Topic 1: Energy	1.1 Energy Changes			
	1.2 Energy Losses & Efficiency			
	1.3 Energy Resources			
Topic 2: Electricity	2.1 Electric Charge			
	2.2 Resistance & Electrical Work			
	2.3 Electric Circuits			
	2.4 Electricity in Homes			
	2.5 Static Electricity			
Topic 3: Particle Model of Matter	3.1 States of Matter			
	3.2 Heat			
	3.3 Particle Motion in Gases			
Topic 4: Atomic Structure	4.1 Atoms and isotopes			
	4.2 Atoms and radiation			
	4.3 uses of radioactive material			
	4.4 Nuclear fission			

To help you revise and fill any gaps in your learning please use:

- CGP Knowledge Organisers
- Seneca