Summer 2023 Combined Science GCSE AQA

		Paper 1	CGP
			pages: Foundation
	Cells	Eukaryotic and prokaryotic cells	17 – 39
	Cells	Microscopes Differentiation and Specialisation	17 - 39
		Differentiation and Specialisation Stem cells	Highor
		Cell cycle and mitosis	Higher 17-39
		·	17-39
		Diffusion, osmosis, active transport (Req Prac)	Foundation
		Digestion Food Tests (Reg Prac)	40-71
	Organisation	Enzymes (Req Prac)	40-71
	Organisation	Lungs	Higher
		Circulatory System	40-74
Biology		Cardiovascular disease	40-74
		Non-communicable disease and risk factors Cancer	
		Transpiration and stomata	Foundation
	Infection	Communicable disease	72-84
	intection	The 7 examples of disease	/2-84
		Immune response	Highau
		Vaccination	Higher 74-88
		Drug trials	
	Di	Photosynthesis	Foundation
	Bioenergetics	Measuring the rate of photosynthesis (Req Prac)	85-96
		Respiration	111.1
		Metabolism	Higher
			89-103
		Atoms, elements, compounds, isotopes	Foundation
		Formulas and equations	161-189
	Atomic	Separating mixtures	
	Structure	History of the atom	Higher
		Electronic structure	173-201
		Development of the periodic table	
		Metals and non-metals	
Chemistry		Group 1/7/0	
		Tran	
		Ions and ionic compounds	Foundation
		Covalent bonding	190-208
	Bonding	Polymers	
		Simple and giant covalent compounds	Higher
		Allotropes of carbon	202-221
		Metallic bonding	
		States of matter	
		Relative formula mass	Foundation
		Conservation of mass	72-84
	Quantitative	Concentrations and solutions	
			Higher
		Higher only	74-88
		Moles	
		Limiting Reactants	
		Acids and bases	Foundation
	Chemical	Making salts (Req Prac)	215-227
	Change	Metals and reactivity	
		Extracting metals	

		Electrolysis (Req Prac)	231-246
		Exothermic and endothermic reactions	Foundation
	Energy Change	Measuring energy changes (Req Prac)	228-232
		Energy profiles	
			Higher
		Higher only	247-252
		Bond energies	
		Energy stores and transfers	Foundation
		Work done	283-304
	Energy	Specific Heat Capacity (Req Prac)	
		Power	Higher
		Conduction and convection	297-315
		Reducing unwanted transfers and efficiency	
		Energy resources – renewable and non-renewable	
		Current and charge	Foundation
Physics		Resistance and Ohms Law	305-325
	Electricity	Resistance of a wire (Req Prac)	
		I-V characteristics	Higher
		Series and parallel circuits	316-333
		LDR and thermistors	
		Electricity in the home (3 pin plug)	
		Power	
		National Grid	
		Particle model of solid/liquid/gas	Foundation
	Particle Model	Density (Req Prac)	326-333
		Internal energy and change of state	
		Specific Latent Heat	Higher
		Particle motion in gases	334-340
		Development of atomic model (also covered in C1)	Foundation
	Atomic	Isotopes	334-346
	Structure	Ionising Radiation	
		Nuclear equations	Higher
		Half life	341-352
		Irradiation and contamination	

Paper 2		
	Nervous system	Foundation
	Reaction time (Req Prac)	97-112
	Hormonal system	
Homeostasis	Blood glucose	Higher
	Diabetes	104-121

		Puberty and Menstrual Cycle Contraception and fertility Higher only	
		Adrenalline and thyroxine (negative feedback	
Biology		Asexual and Sexual reproduction DNA and chromosomes	Foundation 113-140
	Inheritance	Meiosis Genetic diagrams (punnet squares and family trees) Cystic Fibrosis and Polydactyly Embryo Screening Mutations and natural selection Evolution and evidence from fossils Antibiotic resistant bacteria Selective Breeding	Higher 122-150
		Genetic Engineering Classification	
		Describing ecosystems Competition	Foundation 141-160
	Ecology	Abiotic and Biotic factors Adaptations Food Chains Using quadrats (Req Prac) Water Cycle and Carbon Cycle Biodiversity and Waste management Global warming Deforestation	Higher 151-172
Chemistry	Rates of Reaction	Collision theory Factors affecting rate of reaction Measuring rate of reaction (gas syringe and disappearing cross Req Prac) Analysing graphs of rates and calculating rate Reversible reactions	Foundation 233-245 Higher 253-266
		Higher only Le Chatelier's principle and dynamic equilibrium	
	Organic	Hydrocarbons and crude oil Fractional distillation Cracking	Foundation 246-253 Higher
		Crucking	267-272
	Chemical Analysis	Purity and formulations Testing for gases (oxygen, hydrogen, chlorine and carbon dioxide)	Foundation 254-261
		Chromatography (Req Prac)	Higher 273-277
	Atmosphere	Changes in the atmosphere Climate change and greenhouse effect	Foundation 262-269
		Carbon footprint Pollutants	Higher 278-285

	Using Resources	Finite and renewable resources Sustainability Recycling Life Cycle Assessment - LCA Potable water (Req Prac)	Foundation 270-282 Higher 286-296
	Forces	Wastewater treatment Contact and non-contact forces Scalar and Vector quantities Calculating resultant force and work done	Foundation 347-370
Physics		Elasticity and Hooke's Law (Req Prac) Speed and velocity Acceleration Distance-time and velocity-time graphs Terminal velocity Newton's Laws F=ma (Req Prac) Stopping distances and reaction time	Higher 353-370
		Higher only Momentum calculations	
	Waves	Wave features Transverse and longitudinal waves Wave speed Wave Equation	Foundation 371-385 Higher
		Investigating waves (Req Prac) Refraction Electromagnetic Spectrum – uses and dangers Investigating IR radiation (Req Prac)	381-396
	Magnetism	Permanent and induced magnets Magnetic fields Electromagnets Solenoids	Foundation 386-391 Higher
		Higher only Motor effect Left hand rule	397-405