

Road to the Science GCSE – Higher				
Week Commencing:	Day	Biology	Chemistry	Physics
		Cell Biology	Atomic Structure	Energy
4 March	Monday	1. Eukaryotes and Prokaryotes	1. Elements, Compounds, Mixtures + 2. Chemical Formulae	1. Kinetic Energy
	Tuesday	2. Sizes of Cells	3. Filtration, Crystallisation + 4. Simple Distillation	2. Elastic Potential Energy
	Wednesday	3. Order of Magnitude	5. Fractional Distillation + 6. Paper Chromatography	3. Gravitational Potential Energy
	Thursday	4. Animal Cells	7. Alpha-Scattering + 8. Nuclear Model	4. Specific Heat Capacity
	Friday	5. Plant Cells	9. Atomic Number and Mass + 10. Relative Atomic Mass	5. Energy Transfers: Pendulum
11 March	Monday	6. Animal Cell Specialisation	11. Electron Levels + 12. Development of Periodic Table	6. Energy Transfers: Bungee Jumper
	Tuesday	7. Plant Cell Specialisation	13. Group 0 + 14. Metals	7. Work Done by a Force
	Wednesday	8. Microscopy	15. Group 1 + 16. Group 1 pt2	8. Calculating Power
	Thursday	9. Cell Division by Mitosis	17. Group 7 + 18. Group 7 pt2	9. Efficiency
	Friday	10. Stem Cells	19. Group 7 pt3 + 1. States	10. Cooling of Buildings
	r	Organisation	Structure and Bonding	
	Monday	11. Diffusion	2. Ionic Bonding + 3. Ionic Bonding pt2	11. Energy from Fossil Fuels
18 March	Tuesday	12. Surface area to volume ratio	4. Properties of Ionic Compounds + 5. Covalent Bonding	12. Nuclear Power
	Wednesday	13. Osmosis	6. Covalent Bonding pt2 + 7. Covalent Bonding pt3	13. UK Energy Mix
	Thursday	14. Active Transport	8. Properties of small covalent molecules + 9. Diamond and Silicon Dioxide	14. Renewable Sources of Energy



	Friday	1. Digestive system	10. Graphite + 11. Graphene and Fullerenes	1. Current in Series Circuits
			Quantitative Chemistry	Electricity
25 March	Monday	2. Digestive enzymes	12. Bonding in polymers + 13. Metals and Alloys	2. Current in Parallel Circuits
	Tuesday	3. Effect of temp and pH on enzymes	14. Limitations of bonding diagrams + 1. Conservation of mass	3. Potential Difference in Series Circuits
	Wednesday	4. Absorption in small intestine	2. Charges on ions + 3. Formulae of ionic compounds	4. Potential Difference in Parallel Circuits
	Thursday	5. Heart	4. Balancing Equations + 5. Relative Formula Mass	5. Potential Difference from Batteries
	Friday	6. Arteries, Veins, Capillaries	6. Calculating percentage by mass + 7. Calculating moles	6. Charge in Circuits
1 April	Monday	7. The Blood	 8. Calculating moles of a compound + 9. Calculating mass of a number of moles 	7. Calculating Energy Transfer by Components
	Tuesday	8. cardiovascular disease	10. Using moles to balance equations + 11. Avogadro's constant	8. Resistance
	Wednesday	9. Gas Exchange in Lungs	12. Avogadro's constant pt 2 + 13. Reacting masses	9. Resistors
	Thursday	10. Cancer	14. Reacting masses pt2 + 15. Limiting reactant	10. Resistance of a filament lamp
	Friday	11. Communicable and Non- Communicable Diseases	16. Concentration of solutions + 1. Reactions of metals with oxygen	11. Diodes and LEDs
		Infection and Response	Chemical Changes	
	Monday	12. Risk Factors	2. Reactivity series + 3. Extraction of metals	12. Resistors in Series and Parallel
8 April	Tuesday	13. Lifestyle and Disease	4. Oxidation and Reduction + 5. Acids and Alkalis	13. Light-Dependent Resistors



	Wednesday	14. Plant Tissues	6. Acids Reacting with metals + 7. Acids reacting with metals pt2	14. Thermistors
	Thursday	15. Transpiration	 Reactions of acids + Strong and weak acids 	15. Energy Transfer by Appliances
	Friday	1. Communicable and Non- Communicable Disease	10. Electrolysis +11. Electrolysis of aluminium oxide	16. Calculating Energy Transferred by Appliances
			Energy Changes & Required Practicals	
15 April	Monday	2. Pathogens	12. Electrolysis of solution + 13. Electrolysis of solution pt2	17. Power of Components
	Tuesday	3. Measles and HIV	1. Exothermic and Endothermic + 2. Bond Energy Calculations	18. DC and AC supply
	Wednesday	4. Salmonella and Gonorrhoea	3. Bond Energy Calculations pt2 + 1. RP1	19. Mains Electricity
	Thursday	5. Malaria	3. RP3 + 4. RP4	20. National Grid
	Friday	6. Non-Specific Defence Systems	PAPER 1 REVISION DONE	1. Density
	1		Rates of Reaction	Particle Model of Matter
	Monday	7. Immune System	1. Mean Rate	2. Internal Energy
22 April	Tuesday	8. Infection Disease in Plants	2. Using Tangents to Determine Rate	3. Specific Heat Capacity
	Wednesday	9. Vaccination	3. Concentration on rate	4. Heating and Cooling Graphs
	Thursday	10. Antibiotics	4. Surface area on rate	5. Specific Latent Heat
	Friday	11. Testing Medicines	5. Temperature on rate	6. Particle Motion in Gases
		Bioenergetics		Atomic Structure and Radioactivity
	Monday	1. Photosynthesis	6. Catalysts	1. Atomic Structure
	Tuesday	2. Uses of	7. Reversible	2. Atomic and Mass
29 April		Glucose	Reactions	Numbers
	Wednesday	3. Limiting Factors	8. Concentration and Reversible Reactions	3. Alpha-scattering and the nuclear model
	Thursday	4. Respiration	9. Temperature and	4. Radioactivity
			Reversible Reactions	in the activity



	Friday	5. Exercise	10. Pressure and	5. Properties of alpha,
			Reversible Reactions	beta, and gamma
		Required Practicals	Organic Chemistry	Required Practicals
	Monday	6. Metabolism	1. Crude oil and Hydrocarbons	6. Nuclear Equations
6 May	Tuesday	1. RP1 + 2. RP3	2. Properties of Hydrocarbons	7. Half-Life
	Wednesday	3. RP4 + 4. RP5	3. Combustion of Hydrocarbons	8. Irradiation and Contamination
	Thursday	5. RP6	4. Fractional Distillation of Crude oil	1. RP1
	Friday 10 Biology P1	PAPER 1 REVISION DONE	5. Cracking	2. RP3
		Homeostasis	Chemical Analysis	Forces
13 May	Monday	1. Homeostasis + 2. Nervous System	1. Purity and Formulations	3. RP4
	Tuesday	3. Endocrine System + 4. Controlling Blood Sugar	2. Chromatography	4. RP5
	Wednesday	5. Menstrual Cycle + 6. Contraception	3. Testing for Gases	PAPER 1 REVISION DONE
	Thursday	7. Hormones to Treat Infertility + 8. Negative Feedback	1. Atmosphere	1. Scalar and Vector Quantities + 2. Contact and Non-Contact forces
	Friday 17 Chemistry P1	1. Sexual and Asexual Reproduction + 2. Meiosis and Fertilisation	2. Fossil Fuels	3. Gravity and Weight + 4. Resultant Forces
		Inheritance	Chemistry of the Atmosphere	
	Monday	3. DNA + 4. Alleles	3. Greenhouse effect	5. Vector Diagrams + 6. Resolving Forces
20 May	Tuesday	5. Cystic Fibrosis + 6. Polydactyly	4. Climate change	7. Work Done and Energy Transfer + 8. Forces and Elasticity
	Wednesday 22 Physics P1	7. Family Trees + 8. Inheritance of sex	5. Carbon footprint	9. Speed + 10. Velocity



	Thursday	1. Variation + 2.	6. Pollutants from	11. Distance-Time
		Evolution by	fuels	Graphs + 12.
	End allow a	natural selection		Acceleration
	Friday	3. Selective Breeding + 4.	1. Using Resources	13. Acceleration 2 + 14. Newton's first law
		Genetic		Newlon's mist law
		Engineering		
		Ecology	Using Resources	Waves
	Monday	5. Evidence for	2. Potable Water	15. Newton's second
		Evolution: Fossils		law + 16. Newton's third
27 May		+ 6: Resistant		law
		Bacteria		
	Tuesday	7. Classification +	3. Waste Water	17. Vehicle Stopping
		1. Competition	Treatment	Distance + 18. Force
		and Interdependence		and Braking
	Wednesday	2. Biotic and	4. Alternative Methods	19. Momentum + 1.
	weatesday	Abiotic Factors +	of Extracting Metals	Transverse and
		3. Adaptations		Longitudinal Waves
	Thursday	4. Food Chains +	5. Life-Cycle	2. Properties of Waves +
		5. Sampling	Assessment	3. Wave Equation
	Friday	6. Mean, Median,	6. Recycling	4. Electromagnetic
		and Mode + 7.		Waves + 5. Refraction of
		Carbon Cycle		Waves
	Manday	9 Matar Curla	Required Practicals 1. RP5	Magnetism
	Monday	8. Water Cycle + 9. Biodiversity	1. КРЭ	6. Properties of Waves 2+ 7. Uses of EM Waves
3 June	Tuesday	10. Waste	2. RP6	1. Permanent and
e jane	racsaay	Management +	2.10	Induced Magnets + 2.
		11. Land Use		Magnetic Fields
	Wednesday	12. Global	3. RP8	3. Electromagnets + 4.
		Warming + 13.		Motor Effect
		Maintaining		
		Biodiversity		
	Thursday	1. RP7 + 2. RP9	PAPER 2 REVISION DONE	5. Electric Motor + 1. RP6
	Friday 7	PAPER 2		2. RP7 + 3. RP8
	Biology P2	REVISION DONE		
				Required Practicals
	Monday			4. RP8 + 5. RP10
10 1000	Tuesday 11			PAPER 2 REVISION
10 June	Chemistry P2			DONE
	Vednesday			
	Thursday			
	Friday 14			
	Physics P2			

