

Road to the Science GCSE – Triple				
Week Beginning:	Day	Biology	Chemistry	Physics
		<b>Cells</b>	<b>Atomic Structure</b>	<b>Energy</b>
4 March	Mon	1. Eukaryotes and Prokaryotes + 2. Sizes of Cells	1. Elements, Compounds, Mixtures + 2. Chemical Formulae	1. Kinetic Energy + 2. Elastic Potential
	Tues	3. Order of Magnitude + 4. Animal Cells	3. Filtration, Crystallisation + 4. Simple Distillation	3. Gravitational Potential + 4. Specific Heat Capacity
	Wed	5. Plant Cells + 6. Animal Cell Specialisation	5. Fractional Distillation + 6. Paper Chromatography	5. Energy Transfers: Pendulum + 6. Energy Transfers: Bungee Jumper
	Thurs	7. Plant Cell Specialisation + 8. Microscopy	7. Alpha-Scattering + 8. Nuclear Model	7. Work Done + 8. Calculating Power
	Fri	9. Bacterial Division + 10. Mitosis	9. Atomic Number and Mass + 10. Relative Atomic Mass	9. Efficiency + 10. Cooling Buildings
		<b>Organisation</b>		<b>Electricity</b>
11 March	Mon	11. Stem Cells + 12. Diffusion	11. Electron Levels + 12. Development of Periodic Table	11. Energy from Fossil Fuels + 12. Nuclear Power
	Tues	13. Surface Area to Volume + 14. Osmosis	13. Group 0 + 14. Metals	13. UK Energy Mix + 14. Renewable Sources of Energy
	Wed	15. Active Transport + 1. Digestive System	15. Group 1 + 16. Group 1 pt2	1. Current in series + 2. Current in parallel
	Thurs	2. Digestive Enzymes + 3. Effect of Temp and pH	17. Group 7 + 18. Group 7 pt2	3. Potential difference in series + 4. Potential difference in parallel
	Fri	4. Absorption in SI + 5. Heart and Circulation	19. Group 7 pt3 + 20. Transition Metals	5. Potential difference from batteries + 6. Charge in circuits
			<b>Structure and Bonding</b>	
18 March	Mon	6. Arteries, Veins, Capillaries + 7. Blood	1. States + 2. Ionic Bonding	7. Calculating Energy Transfer + 8. Resistance
	Tues	8. Cardiovascular Disease + 9. Gas Exchange	3. Ionic Bonding pt2 + 4. Properties of Ionic Compounds	9. Resistors + 10. Resistance of a filament lamp

	Wed	10. Cancer + 11. Communicable and Non-Communicable Diseases	5. Covalent Bonding + 6. Covalent Bonding pt2	11. Diodes and LEDs + 12. Resistors in series and parallel
	Thurs	12. Risk Factors + 13. Lifestyle and Disease	7. Covalent Bonding pt3 + 8. Properties of small molecules	13. Light-dependent resistors + 14. Thermistors
	Fri	14. Plant Tissues + 15. Transpiration	9. Diamond and Silicon Dioxide + 10. Graphite	15. Energy transfer by appliances + 16. Calculating Energy
		<b>Infection and Response</b>	<b>Quantitative Chemistry</b>	<b>Particle Model of Matter</b>
25 March	Mon	1. Communicable and Non-Communicable Disease + 2. Pathogens	11. Graphene and Fullerenes + 12. Bonding in Polymers	17. Power of components + 18. DC and AC supply
	Tues	3. Measles and HIV + 4. Salmonella and Gonorrhoea	13. Metals and Alloys + 14. Nanoparticles	19. Mains Electricity + 20. National Grid
	Wed	5. Malaria + 6. Non-Specific Defence Systems	15. Limitations of Bonding Diagrams + 1. Conservation of Mass	21. Static Electricity + 22. Electric Fields
	Thurs	7. Immune System + 8. Infectious Diseases in Plants	2. Charges + 3. Formulae of ionic compounds	1. Density + 2. Internal Energy
	Fri	9. Vaccination + 10. Antibiotics	4. Balancing Chemical Equations + 5. Relative Formula Mass	3. Specific Heat Capacity + 4. Heating and Cooling Graphs
		<b>Bioenergetics</b>		<b>Atomic Structure &amp; Radioactivity</b>
1 April	Mon	11. Testing Medicines + 12. Monoclonal Antibodies	6. Calculating % by mass + 7. Calculating Moles of an Element	5. Specific Latent Heat + 6. Particle motion in gases
	Tues	13. Using Monoclonal Antibodies + 14. Plant Disease	8. Calculating Moles of a Compound + 9. Calculating Mass of a number of moles	7. Pressure in gases + 8. Work done on a gas
	Wed	15. Plant Defence + 1. Photosynthesis	10. Using Moles to Balance Equations + 11. Avogadro's	1. Atomic Structure + 2. Atomic and Mass Numbers
	Thurs	2. Uses of Glucose + 3. Limiting Factors	12. Avogadro's pt2 + 13. Reacting Masses 1	3. Alpha Scattering + 4. Radioactivity
	Fri	4. Respiration + 5. Exercise	14. Reacting Masses 2 + 15 Limiting Reactant	5. Properties of alpha, beta, and gamma + 6. Nuclear Equations

		Required Practicals	Chemical Changes	Required Practicals
8 April	Mon	6. Metabolism + 1. RP1	16. Concentration of Solutions + 17. Percentage yield	7. Half-life + 8. Irradiation & Contamination
	Tues	2. RP2 + 3. RP3	18. Percentage yield pt2 + 19. Atom Economy	9. Background Radiation + 10. Nuclear Radion in Medicine
	Wed	4. RP4 + 5. RP5	20. Concentration of Solutions pt 1 + 21. Concentration of Solutions pt2	11. Nuclear fission and fusion + 1. RP1
	Thurs	5. RP6	22. Using Gas Volumes + 23. Using Gas Volumes pt2	2. RP2 + 3. RP3
	Fri	<b>PAPER 1 REVISION DONE</b>	1. Metals and Oxygen + 2. Reactivity Series	4. RP4 + 5. RP5
		<b>Homeostasis</b>		<b>Forces</b>
15 April	Mon	1. Homeostasis + 2. Nervous System	3. Extracting Metals + 4. Oxidation and Reduction	<b>PAPER 1 REVISION DONE</b>
	Tues	3. Brain + 4. Eye	5. Acids and Alkalis + 6. Acids reacting with metals	1. Scalar and Vector Quantities + 2. Contact and Non-Contact
	Wed	5. How Eye Focuses + 6. Thermoregulation	7. Acids reacting with metals pt2 + 8. Reactions of Acids	3. Gravity and Weight + 4. Resultant Forces
	Thurs	7. Endocrine System + 8. Controlling Blood Sugar	9. Strong and Weak acids + 10. Titration calculations	5 Vector Diagrams 6. Resolving Forces
	Fri	9. Kidneys + 10. Maintaining Water Balance	11. Titration calculations pt 2 + 12. Electrolysis	7. Work Done and Energy Transfer + 8. Forces and Electricity
		<b>Inheritance</b>	<b>Energy Changes + RPs</b>	
22 April	Mon	11. Menstrual Cycle + 12. Contraception	13. Electrolysis of Aluminium Oxide + 14. Electrolysis of Solution	9. Moments + 10. Balanced Moments
	Tues	13. Hormones for Infertility + 14. Negative Feedback	15. Electrolysis of Solution pt2 + 1. Exothermic and Endothermic	11. Levers and Gears + 12. Pressure in Fluids
	Wed	15. Plant Hormones + 16. Uses of Plant Hormones	2. Bond Energy Calcs 1 + 3. Bond Energy Calcs 2	13. Floating or Sinking + 14. Speed
	Thurs	1. Sexual, Asexual Reproduction + 2. Meiosis and Fertilisation	4. Cells and Batteries + 5. Fuel Cells	15. Velocity + 16. Distance-Time Graphs
	Fri	3. Adv and Disad of types of reproduction + 4. DNA and Genome	1. RP1 + 2. RP2	17. Acceleration + 18. Acceleration pt2

		Variation and Evolution	Rates of Reaction	Waves
29 April	Mon	5. DNA Structure + 6. Protein Synthesis	3. RP3 + 4. RP4	19. Newton's first law + 20. Newton's second law
	Tues	7. Mutations + 8. Alleles	<b>PAPER 1 REVISION DONE</b>	21. Newton's third law + 22. Forces acting on a skydiver
	Wed	9. Cystic Fibrosis + 10. Polydactyly	1. Mean Rate + 2. Using Tangents to Determine Rate	23. Vehicle Stopping distance + 24. Force and Braking
	Thurs	11. Family Trees + 12. Inheritance of Sex	3. Effect of Concentration + 4. Effect of Surface Area	25. Momentum + 26. Conservation of Momentum
	Fri	1. Variation + 2. Evolution	5. Effect of Temperature + 6. Catalysts	27. Change in Momentum + 1. Transverse + Longitudinal
			Organic Chemistry	
6 May	Mon	3. Selective Breeding + 4. Genetic Engineering	7. Reversible Reactions + 8. Concentration	2. Properties of Waves + 3. Wave Equation
	Tues	5. Cloning Plants + 6. Cloning Animals	9. Temperature and Reversible Reactions + 10. Pressure	4. Reflection of Waves + 5. Sound Waves
	Wed	7. Darwin and Natural Selection + 8. Speciation	1. Crude oil + 2. Hydrocarbons	6. Ultrasound + 7. Seismic Waves
	Thurs	9. Mendel, Genetics + 10. Evidence for Evolution	3. Combustion + 4. Fractional Distillation	8. Electromagnetic Waves + 9. Refraction of Waves
	<b>Friday 10 Biology P1</b>	11. Evidence for Evolution 2 + 12. Classification	5. Cracking + 6. Alkenes	10. Properties of waves pt2 + 11. Uses of EM waves
		Ecology	Chemical Analysis	Magnetism
13 May	Mon	1. Competition and Interdependence + 2. Biotic and Abiotic Factors	7. Reactions of Alkenes pt1 + 8. Reactions of Alkenes pt2	12. Convex Lenses + 13. Magnifying Glasses
	Tues	3. Adaptations + 4. Food Chains and Cycles	9. Alcohols + 10. Reactions of Alcohols	14. Concave lenses + 15. Visible light
	Wed	5. Sampling Organisms + 6. Mean, Median, Mode	11. Carboxylic Acids + 12. Addition Polymers	16. Black body radiation + 1. Permanent and Induced magnets
	Thurs	7. Carbon Cycle + 8. Water Cycle	13. Condensation Polymers + 14. Amino Acids	2. Magnetic fields
	<b>Friday 17 Chemistry P1</b>	9. Decomposition + 10 Environmental Change	15. DNA + 1. Purity and Formulations	3. Electromagnets
			Chemistry of the Atmosphere	
	Mon	11. Biodiversity + 12. Waste Management	2. Chromatography + 3. Testing for Gases	4. Electromagnetic Devices

20 May	Tues	13. Land Use	4. Flame Tests + 5. Metal Hydroxide Precipitates	5. Motor Effect
	<b>Wednesday 22 Physics P1</b>	14. Global Warming	6. Identifying non-metal ions + 1. Atmosphere	6. Electric Motor
	Thurs	15. Maintaining Biodiversity	2. Fossil Fuels + 3. Greenhouse Effect	7. Loudspeakers and Headphones
	Fri	16. Trophic Levels	4. Climate Change + 5. Carbon Footprint	8. Generator Effect
			<b>Using Resources</b>	
27 May	Mon	17. Pyramids of Biomass	6. Pollutants from Fuels + 1. Using Earth's resources	9. Alternator and Dynamo
	Tues	18. Food Security	2. Potable Water + 3. Waste Water Treatment	10. Microphone
	Wed	19. Modern Farming Methods	4. Methods of Extracting Metals + 5. LCAs	11. Transformers
	Thurs	20. Sustainable Fisheries	6. Recycling + 7. Corrosion	12. Transformer Calculations
	Fri	21. Role of Biotechnology	8. Alloys + 9. Ceramics and Composites	1. Solar System
		<b>Required Practicals</b>	<b>Required Practicals</b>	<b>Space</b>
3 June	Mon	1. RP7	10. Thermosoft and Thermoset + 11. Haber Process	2. Lifecycle of Stars
	Tues	2. RP8	12. NPK Fertilisers	3. Orbital Motion
	Wed	3. RP9	1. RP5	4. Red-shift
	Thurs	4. RP 10	2. RP6	1. RP6
	<b>Friday 7 Biology P2</b>	<b>PAPER 2 REVISION DONE</b>	3. RP7	2. RP7
				<b>Required Practicals</b>
10 June	Mon		4. RP6	3. RP8-Ripple Tank
	<b>Tuesday 11 Chemistry P2</b>		<b>PAPER 2 REVISION DONE</b>	4. RP8-Waves in a solid
	Wed			5. RP9
	Thurs			6. RP10
	<b>Friday 14 Physics P2</b>			<b>PAPER 2 REVISION DONE</b>