

Road to the Science GCSE – Foundation				
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
		Organisation	Structure and Bonding	
18 March	Monday	11. Diffusion	2. Ionic Bonding + 3. Ionic Bonding pt2	11. Energy from Fossil Fuels
	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	2. Current in Parallel Circuits
	Tuesday	3. Effect of temp and pH on enzymes	13. Metals and Alloys	3. Potential Difference in Series Circuits
	Wednesday	4. Absorption in small intestine	14. Limitations of bonding diagrams	4. Potential Difference in Parallel Circuits
	Thursday	5. Heart	1. Conservation of mass	5. Potential Difference from Batteries
	Friday	6. Arteries, Veins, Capillaries	2. Charges on ions	6. Charge in Circuits
1 April	Monday	7. The Blood	3. Formulae of ionic compounds	7. Calculating Energy Transfer by Components
	Tuesday	8. cardiovascular disease	4. Balancing Equations	8. Resistance
	Wednesday	9. Gas Exchange in Lungs	5. Relative Formula Mass	9. Resistors
	Thursday	10. Cancer	16. Concentration of solutions	10. Resistance of a filament lamp
	Friday	11. Communicable and Non-Communicable Diseases	1. Reactions of metals with oxygen	11. Diodes and LEDs
		Infection and Response	Chemical Changes	
8 April	Monday	12. Risk Factors	2. Reactivity series + 3. Extraction of metals	12. Resistors in Series and Parallel
	Tuesday	13. Lifestyle and Disease	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	8. Reactions of acids + 9. Strong and weak acids	15. Energy Transfer by Appliances
	Friday	1. Communicable and Non-	10. Electrolysis +11. Electrolysis of aluminium oxide	16. Calculating Energy Transferred by Appliances

		Communicable Disease		
			Energy Changes & Required Practicals	
15 April	Monday	2. Pathogens	12. Electrolysis of solution	17. Power of Components
	Tuesday	3. Measles and HIV	13. Electrolysis of solution pt2	18. DC and AC supply
	Wednesday	4. Salmonella and Gonorrhoea	1. Exothermic and Endothermic	19. Mains Electricity
	Thursday	5. Malaria	2. Bond Energy Calculations	20. National Grid
	Friday	6. Non-Specific Defence Systems	3. Bond Energy Calculations pt2	1. Density
			Required Practicals	Particle Model of Matter
22 April	Monday	7. Immune System	1. RP1	2. Internal Energy
	Tuesday	8. Infection Disease in Plants	3. RP3	3. Specific Heat Capacity
	Wednesday	9. Vaccination	4. RP4	4. Heating and Cooling Graphs
	Thursday	10. Antibiotics	PAPER 1 REVISION DONE	5. Specific Latent Heat
	Friday	11. Testing Medicines	1. Mean Rate	6. Particle Motion in Gases
		Bioenergetics	Rates of Reaction	Atomic Structure and Radioactivity
29 April	Monday	1. Photosynthesis	2. Using Tangents to Determine Rate	1. Atomic Structure
	Tuesday	2. Uses of Glucose	3. Concentration on rate	2. Atomic and Mass Numbers
	Wednesday	3. Limiting Factors	4. Surface area on rate	3. Alpha-scattering and the nuclear model
	Thursday	4. Respiration	5. Temperature on rate	4. Radioactivity
	Friday	5. Exercise	6. Catalysts	5. Properties of alpha, beta, and gamma
		Required Practicals	Organic Chemistry	Required Practicals
6 May	Monday	6. Metabolism	7. Reversible Reactions	6. Nuclear Equations
	Tuesday	1. RP1 + 2. RP3	1. Crude oil and Hydrocarbons	7. Half-Life
	Wednesday	3. RP4 + 4. RP5	2. Properties of Hydrocarbons	8. Irradiation and Contamination
	Thursday	5. RP6	3. Combustion of Hydrocarbons	1. RP1

	Friday 10 Biology P1	PAPER 1 REVISION DONE	4. Fractional Distillation of Crude oil	2. RP3
		Homeostasis	Chemical Analysis	Forces
13 May	Monday	1. Homeostasis	5. Cracking	3. RP4
	Tuesday	2. Nervous System	1. Purity and Formulations	4. RP5
	Wednesday	3. Endocrine System + 4. Controlling Blood Sugar	2. Chromatography	PAPER 1 REVISION DONE
	Thursday	5. Menstrual Cycle + 6. Contraception	3. Testing for Gases	1. Scalar and Vector Quantities + 2. Contact and Non-Contact forces
	Friday 17 Chemistry P1	1. Sexual and Asexual Reproduction + 2. Meiosis and Fertilisation	1. Atmosphere	3. Gravity and Weight
		Inheritance	Chemistry of the Atmosphere	
20 May	Monday	3. DNA + 4. Alleles	2. Fossil Fuels	4. Resultant Forces
	Tuesday	5. Cystic Fibrosis + 6. Polydactyly	3. Greenhouse effect	7. Work Done and Energy Transfer + 8. Forces and Elasticity
	Wednesday 22 Physics P1	7. Family Trees + 8. Inheritance of sex	4. Climate change	9. Speed + 10. Velocity
	Thursday	1. Variation + 2. Evolution by natural selection	5. Carbon footprint	11. Distance-Time Graphs + 12. Acceleration
	Friday	3. Selective Breeding + 4. Genetic Engineering	6. Pollutants from fuels	13. Acceleration 2 + 14. Newton's first law
		Ecology	Using Resources	Waves
27 May	Monday	5. Evidence for Evolution: Fossils + 6: Resistant Bacteria	1. Using Resources	15. Newton's second law + 16. Newton's third law
	Tuesday	7. Classification + 1. Competition and Interdependence	2. Potable Water	17. Vehicle Stopping Distance + 18. Force and Braking
	Wednesday	2. Biotic and Abiotic Factors + 3. Adaptations	3. Wastewater Treatment	1. Transverse and Longitudinal Waves

	Thursday	4. Food Chains + 5. Sampling	5. Life-Cycle Assessment	2. Properties of Waves + 3. Wave Equation
	Friday	6. Mean, Median, and Mode + 7. Carbon Cycle	6. Recycling	4. Electromagnetic Waves + 5. Refraction of Waves
			Required Practicals	Magnetism
3 June	Monday	8. Water Cycle + 9. Biodiversity	1. RP5	6. Properties of Waves 2 + 7. Uses of EM Waves
	Tuesday	10. Waste Management + 11. Land Use	2. RP6	1. Permanent and Induced Magnets
	Wednesday	12. Global Warming + 13. Maintaining Biodiversity	3. RP8	2. Magnetic Fields
	Thursday	1. RP7 + 2. RP9	PAPER 2 REVISION DONE	3. Electromagnets
	Friday 7 Biology P2	PAPER 2 REVISION DONE		1. RP6
10 June	Monday			2. RP7
	Tuesday 11 Chemistry P2			3. RP8
	Wednesday			4. RP8
	Thursday			5. RP10
	Friday 14 Physics P2			PAPER 2 REVISION DONE