



Key Stage 3 CURRICULUM OVERVIEW 2023-2024

Week	1 2 3	4 5 6	7 8 9	10 11 12	2 13	14 1	15 16	17 18	19 20	21	22 22	2 2	4 25	26 27	28 2	29 30	31 32	33 34	35	36	37 38
Year/Term	Autumn 1			Autumn 2			Spring 1			Spring 2		Summer 1			Summer 2						
7	Starting Science Safety Investigation introduction Graphs	Plant and animal cells	Changing State Solids Liquids and Gases	Energy Transfers Types of energy Transfers and transfor mations	Nutr Balar diet Food grou Food tests	nced I ps I	Separati Mixture (solution Purificat solution	s ns) ion of	Energy Resources Energy as a resource. Diverse energy sources	Ad	daptation daptation: volution	S	Forces Force c Types c	iagrams of force	Rocks Weatl Types Rock o Earth struct Fossils	hering of rock cycle ure	Ecolog Variat divers specie Interd of spe	rigy Space tion, Solar S sity of Planet es. motior dependence		System etary	
8	Elements, Compounds, Fuels Conservation of mass Formula equations Fuels Pollution			Light and SoundHealth and VWhite and colouredMicrobeslightDiseaseReflection/rayVariationdiagramsNatural selectPitch/frequencyHuman ear				Photosynthesis, Movement Circulation				Circuit diagrams pl Linear and parallel N Electrical safety Re Magnets Re			pH scal Neutra Reactic Rust	Acids, Alkalis, Metals pH scale Neutralisation Reactions of metals Rust Making salts					
9	Energy Resound types of ener renewable ar renewable fu	key te & resis combi	Starting Electricity – recap of basic key terms & ideas, current, voltage & resistance, parallel/series circuits, combining resistors and resistance of a wire				Basic Forces – recap on weight, centre of mass & stability, effect of forces on shape, Hooke's law			Year 9 Mock Matter – review of solid, liquid & gases, internal energy, SHC & latent heat											

10 Triple	Energy – builds on energy in Years 7 and types of energy, SHC calculations	19, more complex series 8 , circuits, rules for them	Electricity – build on Years 8 & 9, more complex series & parallel circuits, rules for them, electrical power, static electricity & electrical fields.		Atomic Structure – builds on matter and Year 7 particles, links with chemistry, structure of the atom, radiation, half-life and background radiation, fission & fusion.			Year 10 Mock Forces – Building on Year 7 and 9, speed, acceleration & motion graphs, resultant forces, Newtons laws, terminal velocity, stopping distances, momentum, moments, gears & lever, pressure in fluids.				
10 Combined	Energy – builds on energy in Years 7 and types of energy, SHC calculations	•	k parallel	Atomic Structure – builds on matter and Year 7 particles, links with chemistry, structure of the atom, radiation, half-life.			Year 10 Mock Forces – Building on Year 7 and 9, speed, acceleration & motion graphs, resultant forces, Newtons laws, terminal velocity, stopping distances, momentum.					
11 Triple	Forces – See Year 10 summary			Electromagnetism – links with electricity a magnetism in Year 8, magnetic fields & ty using fields to make objects move (motor generating voltages/electricity		ct), Space – Links with forces Year 10, space and forces Year 7, the solar system & the universe, centripetal motion, life cycle of stars, red shift & the big bang.		Revision				
11 Combined	Forces – See Year 10 summary	Waves – links to energy Years 9 & 10, light and sound Year 8, types of waves, waves speed, sound waves, EM spectrum, light waves. Does link with Atomic Mock	electricity an magnetic fiel	<mark>etism</mark> – links with d magnetism in Year 8, ds & types, using fields ects move (motor effect).	Revision							

12 Teacher 1	Electricity – builds or Combining resistors, Assessment 1		tance. po		M spectrum, lenses,	waves, standing waves, ultrasound & doppler	Further Mechanics – building of Year 12 mechanics, momentum, impulse, momentum at angles KSAS			
12 Teacher 2	Mechanics – building on forces Year 10, equations of motions, motion graphs, acceleration due to g, resultant forces, Newtons laws, momentum, moments. Assessment 1			<mark>orces</mark> and Yea lensity, effect looke's law, Y	uilding on Year 9 ar 12 mechanics, of forces on solids, 'oungs modulus, s, type of flow, es Law.	Lenses – taken from waves topic Assessment 2 Revision of all topics	Electric Fields – building on Years 10 and 12 electricity, electric fields, Coulombs law, electric potential, will link to Nuclear & particles. KSAS			
13 Teacher 1	Capacitors – links to Year 12 electricity an electric fields, capacitance, capacita graphs, capacitance equations and associated graphs	d builds on Year electromagne	ds – Tl r 11 er tism, su ds, la ductors the EMF raday	Thermodynamics – building on energy and matter, energy in substances, SHC, latent heat, Gas laws, Kinetic theory.		Mocks Oscillations – building on forces, materials & further mechanics, types of oscillations, defining SHM, equations and graphs of SHM, pendulums, masses on spring, resonance and damping.	Revision paper 1			
13 Teacher 2	Further MechanicsParticles– building of Yearwith atomic in12 mechanics,Year 10, will linmomentum,in with electricimpulse,magnetic fieldsanglesalpha scatteringsub atomicparticles, particaccelerator andtracks.		Nuclear & Radiation – links with Year 10 atomic structure, energy, mass energy equivalence, binding energy, fission & fusion, radiation, half-life and applications		Gravitational Fields – Builds on further mechanics and links with electric fields, defining gravitational fields & equations	Mocks Space – Builds on Year 11 space & waves, standard measurements in space, black body, life cycle of stars, red shift & fate of the universe.	Revision paper 2			