



Science Literary Canon

Year 7

Year 7	Autumn 1		Autumn 2		Spring 1	Spring 2		Summer 1		Summer 2	
Topic/Scheme	B1.1 Cells		P1.1 Contact Forces		C1.2 Elements, Atoms and Compounds	B1.3 Interdependence		C1.3 Mixtures		P1.4 Electric Circuits: Current and Voltage	
	C1.1 Particles		B1.2 Reproduction		P1.2 Gravity			P1.3 Energy Transfers			
Reading Material	Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight	Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight	
	Big Idea		Big Idea		Big Idea	Big Idea		Big Idea		Big Idea	
	Science in the News		Science in the News		Science in the News	Science in the News		Science in the News		Science in the News	
Key Vocabulary	Cell	State	Force	Sexual	Element	Gravitational	Quadrat	compounds	store	Wasted energy	Circuit
	Cell membrane	Substance	Contact	reproduction	Atom	field	transect	evaporation	kinetic	Dissipate	Wires
	Nucleus	Temperature	Non-contact	Asexual reproduction	Particle	strength	producer	filter	gravitational	Conservation of energy	Lamp
	Cytoplasm	Solid	Gravity	Puberty	Substance	mass	consumer	dissolving	elastic	Closed system	Switch
	Mitochondria	Liquid	Air	Pollination	Chemical symbol	weight	predator	boiling point	thermal		Electricity
	Function	Gas	resistance	Seed dispersal	Periodic Table	Proportional	prey	melting point	chemical		Energy
	Structure	Density	Magnetic			Galaxy	primary				Voltage
	Specialised	Mass	Water			Solar system	secondary				Voltmeter
	Neuron	Cube	Resistance			Universe	competition				Energy
	Sperm cell	Volume	Friction			Orbit					Series
	Root hair cell	Float	Tension			Planet					Parallel
	Surface area	Sink				Moon					
Link to Scheme	Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx	Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx	

Year 8

Year 8	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
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Topic/Scheme	B2.1 Tissues and Organs		P2.1 Movement and Pressure		C2.2 Changing Substances		B2.3 Life Diversity		P2.3 Electric Circuits: Resistance		P2.4 Light	
	C2.1 Acids and Alkalis		B2.2 Respiration and Photosynthesis		P2.2 Magnetism		C2.3 Earth Systems		B2.4 Nutrition			
Reading Material	Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight	
	Big Idea		Big Idea		Big Idea		Big Idea		Big Idea		Big Idea	
	Science in the News		Science in the News		Science in the News		Science in the News		Science in the News		Science in the News	
Key Vocabulary	Muscle	pH	Force	Respiration	Compound, molecule	Force	igneous	Resistance	balanced diet	Luminous		
	Skeleton	acid	Balanced	Aerobic	atom	Magnetic	sedimentary	Current	nutrient	Opaque		
	Antagonistic	alkali	Unbalanced	Respiring	element	Attract	metamorphic magma	Voltage	malnutrition	Transparent		
	Contract	acidic	Speed	Mitochondria	formula	Repel	lava	Ohm's Law	deficiency	Translucent		
	Relax	alkaline	distance	Glucose	neutralisation	North pole	pressure	Ammeter	starvation	Incidence		
	Support	solution	Time	Energy	acid	South pole	Evaporation	Voltmeter	obesity	Normal		
	Protection	universal	SI units	Photosynthesis	salt	electromagnet	condensation		balanced diet	Reflection		
	Alveoli	indicator	average	Diffusion		current	precipitation		nutrient	Refraction		
	Surface Area	Litmus	speed	Starch		wire	surface runoff		malnutrition			
	Diffusion	indicator	stationary	Iodine solution		magnetic field	ground		deficiency			
	Composition			Chloroplast		solenoid	water		starvation			
	Blood stream			Chlorophyll			sublimation		obesity			
	Membrane						atmosphere					
Link to Scheme	Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx	

Year 9	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2	
Topic/Scheme	B3.1 Growth and Differentiation		P3.1 Acceleration		B3.2 Human Interaction		P3.2 Heating		C3.3 Using Resources		P3.4 Home Electricity	
	C3.1 The Periodic Table				C3.2 Introduction to Quantitative Chemistry		B3.3 Genetics		P3.3 Sound and Waves			
Reading Material	Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight		Scientist in the spotlight	
	Big Idea		Big Idea		Big Idea		Big Idea		Big Idea		Big Idea	
	Science in the News		Science in the News		Science in the News		Science in the News		Science in the News		Science in the News	
Key Vocabulary	Eukaryotic prokaryotic nucleus plasmid organelle Microscope aseptic diffusion concentration gradient	Periodic table group period electron configuration atomic number Mendeleev	Scalar Vector Resultant Newton Velocity Acceleration	Biodiversity habitat ecosystem abundance quadrat transect species	Concentration Solute Solvent Solution Dilute Meniscus Mass Volume	Conduction Convection Radiation Insulator Thermal	Genome Nucleus Gene DNA Dominant Recessive Genotype Phenotype Heterozygous Homozygous	Finite resource sustainable development life cycle assessment renewable	Dominant Recessive Genotype Phenotype Heterozygous Homozygous	Finite resource sustainable development life cycle assessment renewable	longitudinal transverse compression rarefaction oscillation wavelength amplitude pitch frequency period	Current Potential difference Resistance Component
	Link to Scheme	Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx		Science Delivery Plan & TT 23-24.xlsx

Year 10

Year 10	Autumn 1		Autumn 2		Spring 1	
Topic	Biology: Key Concepts		Biology: Cells and control		Biology: Genetics	
	Chemistry: Atomic structure, Periodic table		Chemistry: Ionic and covalent bonding, Types of substance		Chemistry: Acids and alkalis	

	Physics: Forces and motion	Physics: Conservation of energy	Physics: Waves	
	KO for each topic	KO for each topic	KO for each topic	
Reading Material	Revision guide – directed by staff	Revision guide – directed by staff	Revision guide – directed by staff	https://www.bbc.co.uk/bitesize/topics/z36cfcw/revision/1 https://www.bbc.co.uk/bitesize/topics/zcw22nb
	https://www.bbc.co.uk/bitesize/topics/zy9ww6f https://www.bbc.co.uk/bitesize/topics/zcqxxfr	https://www.bbc.co.uk/bitesize/topics/zpg997h https://www.bbc.co.uk/bitesize/topics/zw6nng8 https://www.bbc.co.uk/bitesize/topics/z39ww6f	https://www.bbc.co.uk/bitesize/topics/zxyggdm https://www.bbc.co.uk/bitesize/guides/zpqvtv4/revision/1 https://www.bbc.co.uk/bitesize/topics/zsb44qt	https://www.bbc.co.uk/bitesize/topics/z36cfcw/revision/1 https://www.bbc.co.uk/bitesize/topics/zcw22nb
	https://www.bbc.co.uk/bitesize/guides/z36cfcw/revision/1 https://www.bbc.co.uk/bitesize/topics/zcw22nb			

Year 10	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Vocabulary	Eukaryotic Optimum Organelle Denatured Solute Isotope Electronic configuration Acceleration Resultant force Centripetal force Equilibrium	Mitosis Asexual Differentiation Embryonic stem cell Neurotransmitter Electron transfer Polyatomic Electrostatic attraction Weak intermolecular forces Delocalised electron Sankey diagram	Meiosis Gene Allele Complimentary base pairs Genotype Phenotype Aqueous solution Dissociate Soluble Neutralisation Frequency Wavelength Longitudinal Transverse	Evolution Natural selection Domains Genetically modified Titration Effervescence Insoluble Precipitate Interface Electromagnetic Oscillations	Communicable Immune Deficiency disease Vector Epidemic Empirical formula Molecular formula Reacting masses Alpha particle Nucleon number Isotope Ionising radiation Decay	Limiting factor Osmosis Photosynthesis Phloem Xylem Cathode Anode Oxidation Reduction Metal ore Extraction Shielding Resultant force Free body force diagram

		Transfer Efficiency Conduction				Resolving
Link to Scheme	Science Delivery Plan & TT 23-24.xlsx	Science Delivery Plan & TT 23-24.xlsx	Science Delivery Plan & TT 23-24.xlsx	Science Delivery Plan & TT 23-24.xlsx	Science Delivery Plan & TT 23-24.xlsx	Science Delivery Plan & TT 23-24.xlsx

Year 11

Year 11	Autumn 1	Autumn 2	Spring 1	
Topic	Biology: Health, disease and the development of medicine	Biology: Photosynthesis, Animal coordination, control, and homeostasis	Biology: Exchange and transport in animals	
	Chemistry: Electrolysis, Obtaining and using materials	Chemistry: Rates of reaction, Dynamic equilibrium, Groups in the periodic table	Chemistry: Heat energy changes in chemical reactions	Chem
	Physics: Radioactivity	Physics: Electricity and circuits	Physics: Electromagnetism and the motor effect	Physic
Reading Material	KO for each topic Revision guide – directed by staff https://www.bbc.co.uk/bitesize/topics/z8xppbk https://www.bbc.co.uk/bitesize/guides/zgn8b82/revision/1 https://www.bbc.co.uk/bitesize/guides/zx6797h/revision/1 https://www.bbc.co.uk/bitesize/topics/zxnvv9g	KO for each topic Revision guide – directed by staff https://www.bbc.co.uk/bitesize/topics/zcgxxfr https://www.bbc.co.uk/bitesize/topics/z38qqhv https://www.bbc.co.uk/bitesize/topics/ztyggdm https://www.bbc.co.uk/bitesize/guides/z3gvtv4/revision/1 https://www.bbc.co.uk/bitesize/topics/zsg997h https://www.bbc.co.uk/bitesize/topics/zcd77p3	KO for each topic Revision guide – directed by staff https://www.bbc.co.uk/bitesize/topics/zsrkk2p https://www.bbc.co.uk/bitesize/topics/ztyggdm https://www.bbc.co.uk/bitesize/topics/z34ddxs https://www.bbc.co.uk/bitesize/topics/zs3cci6	KO for e Revision https:// https:// https:// https://

<p>Key Vocabulary</p>	<p>Communicable Immune Deficiency disease Vector Epidemic Cathode Anode Oxidation Reduction Metal ore Extraction Alpha particle Nucleon number/Isotope Ionising radiation Decay</p>	<p>Limiting factor Osmosis Photosynthesis Phloem Xylem Successful collisions Rate of reaction Reactants Products Shielding Electron Series Parallel Components Coulombs</p>	<p>Metabolism Circulatory system Cardiac Respiration Endothermic Exothermic Reaction profile Induced magnet Potential difference Transformer Transmission</p>	<p>Abunda Samplin Ecosyste Mutuali Fraction Cracking</p>
<p>Link</p>	<p>Science Delivery Plan & TT 23-24.xlsx</p>	<p>Science Delivery Plan & TT 23-24.xlsx</p>	<p>Science Delivery Plan & TT 23-24.xlsx</p>	<p>Scie</p>