



## 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  Big Idea  Science in the News		Scientist in the spotlight  Big Idea  Science in the News		Scientist in the spotlight  Big Idea  Science in the News	Scientist in the spotlight  Big Idea  Science in the News		Scientist in the spotlight  Big Idea  Science in the News		Scientist in the spotlight  Big Idea  Science in the News	
Key Vocabulary	Cell Cell membrane Nucleus Cytoplasm Mitochondria Function Structure Specialised Neuron Sperm cell Root hair cell Surface area	State Substance Temperature Solid Liquid Gas Density Mass Cube Volume Float Sink	Force Contact Non-contact Gravity Air resistance Magnetic Water Resistance Friction Tension	Sexual reproduction Asexual reproduction Puberty Pollination Seed dispersal	Element Atom Particle Substance Chemical symbol Periodic Table	Gravitational field strength mass weight Proportional Galaxy Solar system Universe Orbit Planet Moon	Quadrat transect producer consumer predator prey primary secondary competition	compounds evaporation filter dissolving boiling point melting point	store kinetic gravitational elastic thermal chemical	Wasted energy Dissipate Conservation of energy Closed system	Circuit Wires Lamp Switch Electricity Energy Voltage Voltmeter Energy Series Parallel
Link to Scheme	<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>		<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>		<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>	<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>		<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>		<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>	

**Year 8**

Year 8	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2
<b>Topic/Scheme</b>	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		
<b>Reading Material</b>	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
<b>Key Vocabulary</b>	Muscle	pH	Force	Respiration	Compound,	Force		igneous	Resistance	balanced	Luminous
	Skeleton	acid	Balanced	Aerobic	molecule	Magnetic		sedimentary	Current	diet	Opaque
	Antagonistic	alkali	Unbalanced	Respiring	atom	Attract		metamorphic	Voltage	nutrient	Transparent
	Contract	acidic	Speed	Mitochondria	element	Repel		magma	Ohm's	malnutrition	Translucent
	Relax	alkaline	distance	Glucose	formula	North pole		lava	Law	deficiency	Incidence
	Support	solution	Time	Energy	neutralisation	South pole		pressure	Ammeter	starvation	Normal
	Protection	universal	SI units	Photosynthesis	acid	electromagnet		Evaporation	Voltmeter	obesity	Reflection
	Alveoli	indicator	average	Diffusion	salt	current		condensation		balanced	Refraction
	Surface	Litmus	speed	Starch		wire		precipitation		diet	
	Area	indicator	stationary	Iodine solution		magnetic field		surface		nutrient	
	Diffusion			Chloroplast		solenoid		runoff		malnutrition	
	Composition			Chlorophyll				ground		deficiency	
	Blood							water		starvation	
	stream							sublimation		obesity	
	Membrane							atmosphere			
<b>Link to Scheme</b>	<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>		<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>		<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>		<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>		<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>		<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>



**Year 10**

Year 10	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Topic</b>	Biology: Key Concepts	Biology: Cells and control	Biology: Genetics	Biology: Natural selection and genetic engineering	Biology: Health, disease and development of medicine	Biology: Photosynthesis
	Chemistry: Atomic structure, Periodic table	Chemistry: Ionic and covalent bonding, Types of substance	Chemistry: Acids and alkalis	Chemistry: Acids and alkalis	Chemistry: Calculations involving masses	Chemistry: Electrolysis, obtaining and using metals, Groups in the periodic table
	Physics: Forces and motion	Physics: Conservation of energy	Physics: Waves	Physics: Light and the EM spectrum	Physics: Radioactivity	Physics: Forces and their effects
<b>Reading Material</b>	KO for each topic	KO for each topic	KO for each topic	KO for each topic	KO for each topic	KO for each topic
	Revision guide – directed by staff	Revision guide – directed by staff	Revision guide – directed by staff	Revision guide – directed by staff <a href="https://www.bbc.co.uk/bitesize/topics/zqpyy4j">https://www.bbc.co.uk/bitesize/topics/zqpyy4j</a> <a href="https://www.bbc.co.uk/bitesize/guides/zpqvtv4/revision/1">https://www.bbc.co.uk/bitesize/guides/zpqvtv4/revision/1</a> <a href="https://www.bbc.co.uk/bitesize/guides/z97gfcw/revision/1">https://www.bbc.co.uk/bitesize/guides/z97gfcw/revision/1</a>	Revision guide – directed by staff <a href="https://www.bbc.co.uk/bitesize/topics/z8xppbk">https://www.bbc.co.uk/bitesize/topics/z8xppbk</a> <a href="https://www.bbc.co.uk/bitesize/guides/ztdsmg/revision/1">https://www.bbc.co.uk/bitesize/guides/ztdsmg/revision/1</a>	Revision guide – directed by staff <a href="https://www.bbc.co.uk/bitesize/topics/zcqxxfr">https://www.bbc.co.uk/bitesize/topics/zcqxxfr</a> <a href="https://www.bbc.co.uk/bitesize/guides/zgn8b82/revision/1">https://www.bbc.co.uk/bitesize/guides/zgn8b82/revision/1</a> <a href="https://www.bbc.co.uk/bitesize/guides/zx6797h/revision/1">https://www.bbc.co.uk/bitesize/guides/zx6797h/revision/1</a>
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	<a href="https://www.bbc.co.uk/bitesize/guides/z36cfcw/revision/1">https://www.bbc.co.uk/bitesize/guides/z36cfcw/revision/1</a> <a href="https://www.bbc.co.uk/bitesize/topics/zcw22nb">https://www.bbc.co.uk/bitesize/topics/zcw22nb</a>				<a href="https://www.bbc.co.uk/bitesize/topics/zxnvv9g">https://www.bbc.co.uk/bitesize/topics/zxnvv9g</a>	<a href="https://www.bbc.co.uk/bitesize/topics/z8766yc">https://www.bbc.co.uk/bitesize/topics/z8766yc</a>

**Year 10 (continued)**

Year 10	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Key Vocabulary</b>	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 Transfer Efficiency Conduction	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 Resolving
<b>Link to Scheme</b>	<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>	<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>	<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>	<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>	<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>	<a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a>

**Year 11**

Year 11	Autumn 1	Autumn 2	Spring 1	Spring 2
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<b>Topic</b>	Biology: Health, disease and the development of medicine	Biology: Photosynthesis, Animal coordination, control, and homeostasis	Biology: Exchange and transport in animals	Biology: Ecosystems
	Chemistry: Electrolysis, Obtaining and using materials	Chemistry: Rates of reaction, Dynamic equilibrium, Groups in the periodic table	Chemistry: Heat energy changes in chemical reactions	Chemistry: Fuels, Earth and atmospheric sciences
	Physics: Radioactivity	Physics: Electricity and circuits	Physics: Electromagnetism and the motor effect	Physics: Electromagnetic induction, Particle model, Forces and matter
<b>Reading Material</b>	<p>KO for each topic Revision guide – directed by staff <a href="https://www.bbc.co.uk/bitesize/topics/z8xppbk">https://www.bbc.co.uk/bitesize/topics/z8xppbk</a> <a href="https://www.bbc.co.uk/bitesize/guides/zgn8b82/revision/1">https://www.bbc.co.uk/bitesize/guides/zgn8b82/revision/1</a> <a href="https://www.bbc.co.uk/bitesize/guides/zx6797h/revision/1">https://www.bbc.co.uk/bitesize/guides/zx6797h/revision/1</a> <a href="https://www.bbc.co.uk/bitesize/topics/zxnvv9q">https://www.bbc.co.uk/bitesize/topics/zxnvv9q</a></p>	<p>KO for each topic Revision guide – directed by staff <a href="https://www.bbc.co.uk/bitesize/topics/zcqxxfr">https://www.bbc.co.uk/bitesize/topics/zcqxxfr</a> <a href="https://www.bbc.co.uk/bitesize/topics/z38qghv">https://www.bbc.co.uk/bitesize/topics/z38qghv</a> <a href="https://www.bbc.co.uk/bitesize/topics/ztyggdm">https://www.bbc.co.uk/bitesize/topics/ztyggdm</a> <a href="https://www.bbc.co.uk/bitesize/guides/z3gvtv4/revision/1">https://www.bbc.co.uk/bitesize/guides/z3gvtv4/revision/1</a> <a href="https://www.bbc.co.uk/bitesize/topics/zsg997h">https://www.bbc.co.uk/bitesize/topics/zsg997h</a> <a href="https://www.bbc.co.uk/bitesize/topics/zcd77p3">https://www.bbc.co.uk/bitesize/topics/zcd77p3</a></p>	<p>KO for each topic Revision guide – directed by staff <a href="https://www.bbc.co.uk/bitesize/topics/zsrkk2p">https://www.bbc.co.uk/bitesize/topics/zsrkk2p</a> <a href="https://www.bbc.co.uk/bitesize/topics/ztyggdm">https://www.bbc.co.uk/bitesize/topics/ztyggdm</a> <a href="https://www.bbc.co.uk/bitesize/topics/z34ddxs">https://www.bbc.co.uk/bitesize/topics/z34ddxs</a> <a href="https://www.bbc.co.uk/bitesize/topics/zs3ccj6">https://www.bbc.co.uk/bitesize/topics/zs3ccj6</a></p>	<p>KO for each topic Revision guide – directed by staff <a href="https://www.bbc.co.uk/bitesize/topics/ztvrwx">https://www.bbc.co.uk/bitesize/topics/ztvrwx</a> <a href="https://www.bbc.co.uk/bitesize/topics/z2pyy4j">https://www.bbc.co.uk/bitesize/topics/z2pyy4j</a> <a href="https://www.bbc.co.uk/bitesize/topics/zts33k7">https://www.bbc.co.uk/bitesize/topics/zts33k7</a> <a href="https://www.bbc.co.uk/bitesize/topics/z2tssrd">https://www.bbc.co.uk/bitesize/topics/z2tssrd</a></p>

**Year 11 (continued)**

Year 11	Autumn 1	Autumn 2	Spring 1	Spring 2
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<p><b>Key Vocabulary</b></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 reavtion 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>Abundance Sampling Ecosystem Mutualism Fractional distillation Cracking</p>
<p><b>Link to Scheme</b></p>	<p><a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a></p>	<p><a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a></p>	<p><a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a></p>	<p><a href="#">Science Delivery Plan &amp; TT 23-24.xlsx</a></p>