



BRISTOL CATHEDRAL CHOIR SCHOOL

KS3 Y7	<ul style="list-style-type: none"> Enquiry processes Forces - Speed and Gravity Matter - Particles and Separating mixtures Organisms - Movement and Cells 	<ul style="list-style-type: none"> Reactions - Acids and Alkalis, and Metals and Non-metals Electromagnets - Electrical circuits Genes and Ecosystems - Interdependence and reproduction 	<ul style="list-style-type: none"> Energy - Energy costs and transfers Earth - Earth structure and the Universe 	
	<ul style="list-style-type: none"> Enquiry processes 2 Matter - Elements and the Periodic table Forces - Contact forces and Pressure Energy - Work, and Heating and Cooling 	<ul style="list-style-type: none"> Ecosystems - Photosynthesis and Respiration Organisms - Breathing and Digestion Earth - Climate and Earth resources Waves 	<ul style="list-style-type: none"> Genes - Variation and genetics Reactions - Types of reaction and Chemical energy 	
KS4 Y9	Biology:	B1: Cell structure and transport B3: Organisation and the digestive system	B3: Organisation and the digestive system contd B4: Organising animals and plants	B8: Photosynthesis B9: Respiration
	Chemistry:	C1 Atomic Structure C2 The Periodic Table	C3 Structure and Bonding	C5 Chemical Changes
	Physics	P3 Energy Resources P1 Conservation and Dissipation of Energy	P2 Energy Transfer by Heating	P6 Molecules and Matter P9 Motion
KS4 Y10	Biology:	B2: Cell division B5: Communicable and diseases B6: Preventing and treating disease	B7: Non-communicable diseases B10: The human nervous system B11: Hormonal coordination	*B12 : Homeostasis in action B13: Reproduction B14: Variation and evolution
	Chemistry:	C6 Electrolysis C7 Energy Changes	C4 Chemical Calculations C8 Rates and Equilibrium	*C10 Organic Reactions* C9 Crude Oil and Fuels
	Physics	P4 Electric Circuits P5 Electricity in the home	P7 Radioactivity P8 Forces in Balance	P10 Force and Motion *P11 Force and Pressure*
KS4 Y11	Biology:	B15: Genetics and evolution B16: Adaptations, interdependence and competition B17: Organising an ecosystem	B18: Biodiversity and ecosystems Revision	Revision

	Chemistry:	*C11 Polymers* C12 Chemical Analysis	C13 The Earth's Atmosphere C14 The Earth's Resources *C15 Using Our Resources* Revision	Revision
	Physics	*P12 Wave properties* P13 EM spectrum P14 Light	P15 Electromagnetism *P16 Space*	Revision

Topics denoted with "*" are only learnt by students sitting the Triple Science course

* Fieldwork visit planned within this topic

KS5 Y12	Biology:	Section 1: Biological molecules Section 2: Cells	Section 3: Organisms Exchange substances with their environment Section 4: Genetic information, variation and relationships between organisms,	Section 5: Energy transfers between organisms (photosynthesis) Section 7: Genetics, populations, evolution and ecosystems (populations in ecosystems)
	Chemistry :	Year 12 Lead in Programme Physical - Atomic structure, Amount of Substance, Bonding, Energetics, Kinetics	Physical - Equilibria, Oxidation and Reduction Organic - Introduction to Organic Chemistry, Alkanes Inorganic - Periodicity, Group 2	Organic - Alkenes, Alcohols, Organic analysis Inorganic - Group 7
	Physics	Year 12 Lead-in Programme 1 Matter and Radiation 2 Quarks and Leptons 4 Waves 5 Optics	3 Quantum Phenomena 6 Forces and Equilibrium 7 On the Move 12 Electric Current 13 Dc Circuits	8 Newton's Laws of Motion 9 Force and Momentum 10 Work, Energy and Power 11 Materials 17 Motion in a Circle 19 Thermal Physics
KS5 Y13	Biology:	Section 5: Energy transfers between organisms (Respiration, Energy and Ecosystems) Section 7: Genetics, populations, evolution and ecosystems (Inherited change, Populations and evolution)	Section 6: Organisms respond to changes in their environments Section 8: Control of Gene Expression	Section 6: Organisms respond to changes in their environments Section 8: Control of Gene Expression
	Chemistry :	Physical - Thermodynamic, Kinetics, Equilibria constant Organic - Nomenclature and isomerism, Compounds containing the carbonyl group, Aromatic compounds	Physical - Electrode potentials and electrochemical cells, Acids, bases and buffers Organic - Amines, Polymerisation, Amino acids, proteins and DNA, Organic synthesis and analysis	Inorganic - Periodicity, The transition metals, Reactions of inorganic compounds in aqueous solutions Organic - Structure determination, Chromatography
	Physics	19 Thermal Physics 20 Gases 21 Gravitational Fields	27 Nuclear Energy 22 Electric Fields 24 Magnetic Fields	Option Module - Turning Points

	18 Simple Harmonic Motion 26 Radioactivity	25 Electromagnetic Induction 23 Capacitors	
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