

SCIENCE Programme of Study KS4 Year 11 (2024-25)

zymes		: Cells, Human I		Diversity'													
zymes	Area Topic:			Autumn 1 – 'Equality & Diversity'							Autumn 2 – 'Living in the Wider World'						
- I	Subject Area Topic: Cells, Human Digestive System, Plants, Atoms, Periodic Table, Compounds							Subject Area Topic: Metals & Alloys, Power, Forces, Speed & Velocity, Respiration, Reproduction									
zymes (Blood Coronary Heart	and organisms Photosynthesis Photosynthesis Prac.	and electronic structure Group 1 Periodic table	Periodic table Group 0 Periodic table Ionic	lonic compound properties. ASSESSMEN T	Covalent bonding Polymers Giant covalent structures	Metals and alloys Changes in energy	Power and energy resources Forces and elasticity Spring constant prace	Speed and velocity Acceleration Newton's first law	Newton's second law Newton's	Respiration Homeostas is Human nervous system	tion	Meiosis Genetic				
Notes/Links/Interleaving Additional Higher Content							Notes/Links/Interleavi ng Additional Higher Content										
	Spring 1	– 'The Circle	of Life'						Spring 2 – 'C	onflict'							
Subject Area Topic: Sex Determination/Variation, Structures, Extraction, Reactions						Subject Area Topic: Catalysts & Reactions, Distillation, Properties, Forces, Magnetism											
and bondii diamond, q graphene fullerenes. Metal oxid	ng in carbon, graphite, and les and	metals and reduction. Exothermic and endothermic reactions	profiles Rates of reaction- calculating rates of	a reaction.	Required practical	Catalysts and r reactions Equilibrium		h Fractional c	ydrocarbons and	Stoppin	g distance ar	Electro	etic fields omagnetisi				
O	ving Subject Structures and bondi diamond, graphene fullerenes. Metal oxid	ving Spring 1 Subject Area Topic: S Extructures and bonding in carbon, diamond, graphite, graphene and fullerenes.	ving Additional High Spring 1 — 'The Circle Subject Area Topic: Sex Determination Extraction, Reaction Structures and bonding in carbon, diamond, graphite, graphene and fullerenes. Metal oxides and reactivity series. Entitiosynthesis Prac. Additional High Extraction Extraction of metals and reduction. Exothermic and endothermic reactions	rt + d sels	Prac. Group 1 Periodic table Ionic bonding Additional Higher Content Spring 1 — 'The Circle of Life' Subject Area Topic: Sex Determination/Variation, Structures, Extraction, Reactions Structures and bonding in carbon, diamond, graphite, graphene and fullerenes. Extraction of metals and reduction. Exothermic and endothermic reaction-calculating rates of Metal oxides and reactions ASSESSME	rt + d d sels Prac. Prac. Group 1 Periodic table Group 0 Periodic table Ionic bonding Spring 1 — 'The Circle of Life' Subject Area Topic: Sex Determination/Variation, Structures, Extraction, Reactions Structures and bonding in carbon, diamond, graphite, graphene and fullerenes. Structures and bonding in carbon, Extraction of metals and reduction. Extraction of metals and reduction.	Prac. Group 1 Periodic table Group 0 Periodic table Ionic bonding Additional Higher Content Spring 1 — 'The Circle of Life' Subject Area Topic: Sex Determination/Variation, Structures, Extraction, Reactions Structures and bonding in carbon, diamond, graphite, graphene and fullerenes. Extraction of metals and reduction. Excharge and bonding in carbon, diamond, graphite, graphene and fullerenes. Exothermic and endothermic reactions Rates of reaction-calculating rates of reaction. Collision theory and activation activation	Polymers Giant covalent structures Spring 1 - 'The Circle of Life'	Forces and elasticity Additional Higher Content Subject Area Topic: Sex Determination/Variation, Structures, and bonding in carbon, diamond, graphite, graphene and fullerenes. Extraction of elactions and endothermic graphene and fullerenes. Metal oxides and reactivity series. Forces and elasticity Spring Changes Giant covalent structures Polymers Giant covalent structures Notes/Links/Interleavi ng Subject Area Subject Area Subject Area Subject Area Factors that affect the rate of a reaction. Extraction of metals and reduction. Extraction freaction Fractional distillation Collision to valent structures Subject Area Catalysts and reversible reactions Fractional distillation Collision theory and activation	Prac. Prac. Prac. Periodic lable Group 1 Periodic lable Group 0 Periodic lable Group 0 Periodic lable Group 0 Periodic lable Polymers Giant covalent structures Polymers Covalent structures Polymers Giant covalent structures Polymers Coval	Polymers Giant covalent structures Additional Higher Content Spring 1 – 'The Circle of Life' Subject Area Topic: Sex Determination/Variation, Structures, Extraction, Reactions and bonding in carbon, graphite, graphene and fullerenes. Extractions Metal oxides and reactivity series. Polymers Giant covalent structures Spring 2 – 'Conflict' Subject Area Topic: Catalysts & Reactions Properties, Forces, Magnetism fractions Fractional distillation Forces and elasticity Newton's first law Newton's fi	Priodicy lines of delasticity and periodic table and reactions reactions. Additional Higher Content Polymers Giant covalent structures Polymers Giant covalent Polymers Giant Polymers Giant covalent Polymers Covalent	Processing and bonding in carbon diamond, graphite, graphite and feactions reactions and feactions reactions. Process and feactions and feactions and feactions are activity series. Polymers Giant covalent structures Polymers Giant covalent str				

Notes/Links/Interleaving					Notes/Links/Interleaving	Higher Content					
Sum	mer 1 – 'Healt	h & Leisur	e'	Summer 2 – 'Crime & Punishment' (CSI THEME)							
Subject Area Topic: Cath-up & Revision						Subject Area Topic: Examinations					
Catch up period	REVISION	REVISION	REVISION	REVISION		CSE	EXA	\MS			
Notes/Links/Interleaving A					Notes/Links/Int	Additional Higher Content					
	Sum Area Topic: Cath-up & F Catch up period	Summer 1 – 'Healt Area Topic: Cath-up & Revision Catch up period REVISION	Summer 1 – 'Health & Leisur Area Topic: Cath-up & Revision Catch up period REVISION REVISION	Summer 1 – 'Health & Leisure' Area Topic: Cath-up & Revision Catch up period REVISION REVISION	Summer 1 – 'Health & Leisure' Area Topic: Cath-up & Revision Catch up period REVISION REVISION REVISION	Summer 1 – 'Health & Leisure' Area Topic: Cath-up & Revision Catch up period REVISION REVISION REVISION Catch up period REVISION REVISION	Summer 1 – 'Health & Leisure' Area Topic: Cath-up & Revision Catch up period REVISION REVISION REVISION REVISION REVISION REVISION	Summer 1 – 'Health & Leisure' Area Topic: Cath-up & Revision Catch up period REVISION REVISION	Summer 1 – 'Health & Leisure' Area Topic: Cath-up & Revision Catch up period REVISION REVISION		