	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6		
	Content delivered:	Content delivered:	Content delivered:	Content delivered:	Content delivered:	Content delivered:		
		Unit 2.1.3:	Unit 2.1.6:	Unit 3.1.3:	Unit 3.1.2:	Unit 5.1.2:		
	Coll structure	Structure of ATR and ADR	Cell cycle Stagge of mitoric	Disetuladopous plants	Forming tissue fluid	Kidpov		
	Using stage micrometers and eve niece	Forming and breaking phosphodiesters	Mitosis in life cycles	Transpiration	Cardiac cycle	Water potential		
	graticules	Structure of DNA	Stages of meiosis	Xerophytes	ECG	Kidney failure		
	Magnification and resolution	Semi-conservative replication	Organisation of cells	Unit 3.1.1:	Role of haemoglobin	Unit 5.1.4:		
	Ultrastructure of eukaryotes	Genetic code	Features and differentiation of stem cells	Mechanisms of ventilation in fish	Oxygen dissociation curves	Endocrine communication		
	Protein synthesis	Transcription and translation	Erythrocytes and neutrophils	Mechanisms of ventilation in insects	Unit 5.2.1:	Adrenal glands		
Voar 12	Unit 2.1.2:	Unit 2.1.5:	Unit 3.1.1:	Unit 3.1.2:	Relationship between photosynthesis	Pancreas		
	Elements in biomolecules	Role of membranes	Specialised exchange surfaces	Transport systems in multicellular	and respiration	Controlling blood sugar		
Biology	Condensation and hydrolysis reactions	Fluid mosaic model	Features of efficient surfaces	organisms	Structure of the chloroplast	Diabetes		
87	Monosaccharides, disaccharides &	Factors affecting structure and	Mammalian gas exchange system	Circulatory systems	Photosynthetic pigments	Unit 5.1.3:		
	polysaccharides	permeability of membranes	Ventilation in mammals	Blood vessels	Light dependent reaction	Receptors and nerve impulses		
	Irigiycerides and phospholipids	Usmosis and diffusion	Spirometry		Light independent reaction	Converting stimuli		
	Amino acida	Enzymos as catalysts			Factors affecting photosynthesis	Pacting potential and action potential		
	Polypentides	Mechanisms of enzyme action			Cell signalling	Synanses		
	Levels of protein structure	Factors affecting enzyme activity			Homeostasis	Neurotransmission		
	Inorganic ions	Coenzymes				Unit 5.1.5:		
	Quantitative methods to determine	Cofactors				Plant responses		
	concentration	Enzyme inhibitors				Auxins and apical dominance		
	Methods of TLC					Gibberellins		
						Commercial use of plant hormones		
Key Words	<b>2.1.1:</b> Electron micrograph,	<b>2.1.3</b> : Double helix, monomer,	<b>2.1.6:</b> Cytokinesis, interphase, mitosis,	<b>3.1.3:</b> Dicotyledonous plant, meristem,	<b>3.1.2:</b> Ostia, peristalsis, blood,	<b>5.1.2:</b> Excretion, metabolic waste,		
Level 2	magnification, organelle,	nucleotide, polynucleotide, helicase.	chromatids, haploid, homologous	phloem, vascular tissue, xylem,	hydrostatic pressure, lymph, oncotic	hepatic artery, hepatic portal vein,		
Level 3	photomicrograph, resolution, graticule,	Polymerase, semi-conservative	chromosomes, prophase, metaphase,	companion cell, sieve tube,	pressure, plasma, tissue fluid, AV valves,	ornithine cycle, catalase, cytochrome,		
	rough/smooth endoplasmic reliculum,	transcription, gene, polypeptide, protein,	differentiation, epithelial cell	plasmodesmala, polometer,	cardiac muscle, SL valve, myocardial,	nephron ultrafiltration selective		
	chloroplast lysosome cilia undulinodia	2.1.5: Fluid mosaic model glycolinid	erythrocyte neutrophil genome guard	hydrophyte xerophyte assimilate sink	cycle systole diastole	reabsorption descending/ascending		
	ribosome. centriole. cytoskeleton.	glycoprotein, plasma membrane.	cell, palisade cell	source, translocation, independent	<b>5.2.1:</b> Autotrophic nutrition. granum.	limb. Loop of Henle, osmoreceptor.		
	prokaryotic, eukaryotic	diffusion, facilitated diffusion, osmosis,	<b>3.1.1:</b> Surface area, alveoli, bronchi,	variable, dependent variable, control	photosynthetic pigment, photosystem,	glomerulus		
	<b>2.1.2:</b> Condensation reaction, hydrolysis,	water potential, plasmolysed, crenation,	bronchioles, diaphragm, intercostal	variable, reliability, reproducibility,	stroma, thylakoid, chlorophyll,	5.1.4: Endocrine, hormone, adenyl		
	monomer, polymer, glycosidic bond,	flaccid, turgid, endocytosis, exocytosis,	muscle, trachea, ventilation, cartilage,	validity	photolysis, photophosphorylation,	cyclase, adrenal cortex, adrenal medulla,		
	macromolecule, phospholipid, amino	active transport	ciliated epithelium, elastic fibres, goblet	<b>3.1.1:</b> Buccal cavity, counter-current	electron carrier, RuBisCo, light intensity,	adrenaline, mineralocorticoids,		
	acid, peptide bond, primary structure,	<b>2.1.4:</b> Active site, catalyst, extracellular,	cells, smooth muscle, breathing rate,	flow, filament, lamellae, operculum,	water stress, photosynthometer,	fasciculata, reticularis, beta cells		
	secondary structure, tertiary structure,	intracellular, metabolic, product,	tidal volume, spirometer, vital capacity,	spiracle, tracheal fluid	potometer	glucagon, insulin, hyper/hypoglycaemia,		
	quaternary structure, fibrous protein,	substrate, cofactor, enzyme-substrate		<b>3.1.2:</b> Double circulatory system, single	<b>5.1.1:</b> Cell signalling, stimulus, response,	glycogenolysis, gluconeogenesis,		
	globular protein, prostnetic group,	complex, specificity, competitive		circulatory system, transport, arteries,	effector, nomeostasis, receptor,	diabetes mellitus		
	colorimeter	prosthetic group, independent variable		system open circulatory system veins	ectotherm, endotherm, hypothalamus	transducer depolarisation neurope		
		dependent variable control variable		venules		myelinated node of Banyier action		
		validity, reproducibility, reliability.				potential, resting potential, generator		
		buffer, concentration, enzyme-substrate				potential, saltatory conduction,		
		complex, denature				cholinergic synapse, neurotransmitter,		
						summation		
						5.1.5: Alkaloid, pheromone, tannin,		
						phototropism, geotropism,		
						chemotropism, thigmotropism,		
						thigmonasty, apical dominance, auxin,		
Whore providue knowledge	K2) V	K25. X	KS2: Parts of the body	KS2: How water is transported in plasts	KS2: How water is transported in plants	gibberellin, cytokinin KS2: How animals get putrition		
bas occurred and future	KS2: X KS3: Vear 7 cells	KS2: X KS3: Year 7 Diffusion	KS2: Parts of the body	KS2: How water is transported in plants	KS2: How water is transported in plants	KS2: How animals get nutrition		
development	KS3: Year 8 Elements and compounds	KS3: Year 8 Enzymes	KS3: Year 8 Breathing	KS4: Year 10 The heart and blood (R2)	KS4: Year 10 The heart and blood (R2)	KS4. Year 11 Osmoregulation (R5)		
$KS2 \rightarrow KS3 \rightarrow KS4 \rightarrow KS5$	KS4: Year 10 Cells (B1)	KS4: Year 10 Diffusion and osmosis (B1)	KS4: Year 10 Mitosis and the cell cycle	KS4: Year 10 Photosynthesis (B4)	KS4: Year 10 Photosynthesis and	KS4: Year 11 Nerves and reflexes (B5)		
	KS5: Photosynthesis, respiration	KS4: Year 10 Enzymes (B2)	(B1)	KS5: Eukaryotic cells	respiration (B4)	KS4: Year 11 Controlling blood sugar (B5)		
	, , ,	KS4: Year 11 Genetics (B6)	KS4: Year 11 Meiosis (B6)		KS4: Year 11 Homeostasis (B5)	KS4: Year 11 Hormonal responses (B5)		
		KS5: Respiration, inheritance	KS5: Cells, immunity		KS5: Ultrastructure of cells	KS5: Biomolecules, cell structure		
Common Misconceptions	2.1.1: Differences between micrometers	2.1.3: Confusion between DNA, mRNA	2.1.6: The stages of interphase	3.1.3: Plants need lots of water	3.1.2: Shaping oxygen dissociation	5.1.2: Both kidneys are needed		
	and graticules	and tRNA	3.1.1: All animals have lungs	3.1.2: All circulatory systems are the	curves	5.1.4: You can get type I diabetes later in		
	2.1.2: Identifying the locations of bonds	2.1.5: That membranes are fully rigid		same	5.2.1: Chlorophyll is the only	life		
		2.1.4: The effect of inhibitors on active			photosynthetic pigment	5.1.3: All stimuli illicit a response		
		sites				5.1.5: Plants don't need hormones		

Literacy	Scientific writing	g (HSW): PAG 9	Scientific writin	g (HSW): PAG 8	Scientific writin	g (HSW): PAG 4	AG 4 Scientific writing (HSW): PAG 5		Scientific writing (HSW): PAG 4		NHTW reviews as starter activities		
	NHTW reviews a	as starter activities	Scientific writin	g (HSW): PAG 5	Scientific writin	g (HSW): PAG 1	1 NHTW reviews as starter activities		Scientific writing (HSW): PAG 6				
			NHTW reviews	as starter activities	Scientific writing (HSW): PAG 10				NHTW reviews as starter activities				
					NHTW reviews as starter activities								
Numeracy	Rearranging equ	uations	Drawing and int	terpreting graphs	Standard form		Standard form		Rearranging formula		Standard form		
	Drawing and int	erpreting graphs	Calculating mea	Calculating means		Interpreting graphs		Converting units		Calculating means		Converting units	
	Converting units	S	Rearranging formula				<u> </u>		Drawing and interpreting graphs				
Homework	Completion of D	oddle section quizzes	Completion of Doddle section quizzes		Completion of Doddle section quizzes		Completion of Doddle section quizzes		Completion of Doddle section quizzes		Completion of Doddle section quizzes		
Assessment this half-term	PAG 9		PAG 8		PAG 4		PAG 5		PAG 2		Mock exams 2 x paper 1		
	2.1 mini test	2.1 mini test		PAG 5		PAG 1		Unit 3 mini test		PAG 6			
	2.2 min test		Unit 2 mini test	Unit 2 mini test		PAG 10				Unit 3 full test			
					Unit 2 full test				Unit 5 mini test				
					Unit 3 mini test								
Career opportunities	LIFE SKILLS: Und	lerstanding how	LIFE SKILLS: Understanding the role of		LIFE SKILLS: Understanding the		LIFE SKILLS: Understanding how plants		LIFE SKILLS: Understanding how the		LIFE SKILLS: Understanding reflex actions		
Employment Links	microscopes wo	ork	DNA	<b>A 11 1</b>	importance of enzymes in everyday		transport water		heart works		EMPLOYMENT:	Healthcare professional	
	EMPLOYMENT	Microbiologist	EMPLOYMENT:	Geneticist	things e.g. washing powder		EMPLOYMENT: Physiotherapist		EMPLOYMENT: Cardiovascular surgeon				
Fasiebasest							Nanay Dathwall Award				Chaster Zee visit		
Enrichment				offo ating month rom on			Nancy Rothwell Award		DAC 2: Uport discontion				
Practical activities/HSW	PAG 9: Quantita	itive and qualitative	PAG 8: Factors a		PAG 4. Factors affecting enzyme activity		Nicroscopy of stained xylem and philoem		PAG 2: Heart dissection				
	Microscopy		PAG 5. Determi	ning unknown	PAG 1. ROOL UP	squash mitosis	FAG 5. Using a polometer		PAG 0. TLC				
Employability Skills	Aiming high	Literacy	Aiming high	Literacy	Aiming high	Literacy	Aiming high	Literacy	Aiming high	Literacy	Aiming high	Literacy	
	Creativity	Numeracy	Creativity	Numeracy			Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy	
	Leadership	Independence	Leadership	Independence	Leadership	Independence	Leadership	Independence	Leadership	Independence	Leadership	Independence	
	Listening	Communication	Listening	Communication	Listening	Communication	Listening	Communication	Listening	Communication	Listening	Communication	
	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	
	Problem solving	Staying positive	Problem solving	g Staying positive	Problem solving	staying positive	Problem solving	Staying positive	Problem solving	Staying positive	Problem solving	Staying positive	
IT Skills	IT1 & IT2: Appropriate websites and IT1 & I		IT1 & IT2: Appropriate websites and		IT1 & IT2: Appropriate websites and		IT1 & IT2: Appropriate websites and		IT1 & IT2: Appropriate websites and		IT1 & IT2: Appropriate websites and		
	research for homework as well as recall		research for homework as well as recall		research for homework as well as recall		research for homework as well as recall		research for homework as well as recall		research for homework as well as recall		
	quizzes		quizzes		quizzes		quizzes		quizzes		quizzes		
Notes/developments													
/standardisation comments													