



<u>Curriculum Overview for Biology</u> <u>Year 10</u>

Half Tame of Calle and Output action	Clina and Constant
Half Term 1: Cells and Organisation	Skim and Scan of source information
Substantiva Vnoudedge	Decoding terms
Substantive Knowledge: Cell transport methods; diffusion, osmosis and	Etymology of key terms
active transport	Etymology of key terms
Surface area and volume ratio	
Structure and function of xylem, phloem and	Xylem, phloem, transpiration,
root hair cells	root, pathogen, virus, bacteria,
Transpiration stream as a transport system	
Hierarchical system: cells, tissues and organs	
Organ systems:	, ,
Practical – food tests	Posall questions to start every
Tractical – 100d tests	Recall questions to start every
Disciplinary Knowledge:	lesson Recall test
Investigating osmosis	Review sheets
Sequencing methods, identifying variables,	Review streets
completing risk assessments	
Calculating magnification, SA:vol	Revision Card preparation
Carculating magnification, 57 tivor	Recall test
	Repetition of use of revision
	cards for review sheets and
	recall tests and for termly
	exams.
Half Term 2: Organisation	Skim and Scan of source
	information
Substantive Knowledge:	Decoding terms
Organ systems:	Etymology of key terms
Digestive enzymes	
Enzyme mechanism and activity	Fungi, protist, symptom,
Practical into enzyme activity	phagocyte, lymphocyte, body
The heart structure and function	defence, clinical trial, antibody,
The lungs structure and function	antigen
Composition of blood	
Lifestyle factors and their links to disease	B "
Coronary heart disease and its treatment	Recall questions to start every
Cancer and its risk factors	lesson
Plant systems: Leaf structure and function	Recall test
Stomata structure and function	Review sheet
Root structure and function	
Xylem structure and function	Revision Card preparation
Phloem structure and function	Recall test
Transpiration stream	Repetition of use of revision
Rates of transpiration and how they are	cards for review sheets and
impacted	recall tests and for termly
Impacted	exams.
Disciplinary Knowledge:	
	



	Wider links to the world and d
Analysis of data	
Importance of prevention and cure	
Developing scientific arguments	
Drug discovery and development – Plants and	
microorganisms, pharma industry synthesis,	
trials and testing. The importance of testing	
Analysis of graphical data – antibody levels	
Process of identifying plant disease	