

# High Tunstall College of Science Curriculum Intent

Subject: Separate Biology Year: 11

## Thread 1—Cells and organisation



	Biology Thread 1	Progress		
Topic	Key ideas	R	A	G
Cells and organisation	I can review cells, giving names of organelles and their functions			
	I can apply my knowledge of diffusion to real life contexts			
	I can explain the process of osmosis			
	I can investigate the effect of concentration on osmosis			
	I can explain what active transport is			
	I can compare and contrast active transport, osmosis and diffusion			
	I can explain what causes CHD and risk factors			
	I can evaluate treatments for CHD			
	I can explain how cancerous cells develop, and can consider risk factors for this			

Lesson	Learning Focus	Assessment	Key Words
1	What can I remember about cells?	SOLO taxonomy tasks	Prokaryote, eukaryote, organelle, cell, nucleus, cell membrane, cytoplasm, cell wall, chloroplasts, vacuole
2	Where does diffusion happen in the living things?	SOLO taxonomy tasks and extended writing	Diffusion, temperature, surface area, concentration
3	What is osmosis?	Completion of exam questions and application tasks	Osmosis, concentration gradient
4	RPA Osmosis	Completion of RPA and conclusion drawn	Osmosis, concentration gradient
5	What is active transport?	Differentiated tasks comparing active transport, osmosis and diffusion	Active transport, diffusion, osmosis
6	What is coronary heart disease and how can it be treated?	Completion of differentiated work booklet	Coronary heart disease, atherosclerosis, stent
7	What is cancer and how can it be treated?	Exam questions	Cancer, malignant, benign, tumour