

YEAR 8 – SCIENCE



Biological Systems

Know:	Structure and function of blood cells (specialised cells) linked to the circulatory
	system.
	 Enzymes are made of protein and are biological catalysts.
	 Names, positions and functions of organs and systems in the body.
	 The names and adaptations of gametes in animals.
	 Function of bones including: protection, support, movement, production of blood and stem cells.
Can:	 Can describe that enzymes act as 'builders' and 'breakers'.
	 Explain how surface area: volume ratio affects gas exchange in organisms and link this
	to the structure and function of gas exchange system.
	Describe the human reproductive system.



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Particles

Know:	 The pH scale and how acids and bases react. The reactions of acids. What a catalyst does.
Can:	 Compare chemical and physical changes. Represent chemical changes using formulae and equations. Classify chemical reactions as: combustion, decomposition, oxidation and displacement; endo/exothermic



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Transferring Energy

Know:	•	Definitions of a wave, frequency and wavelength.
	•	Similarities and differences between how longitudinal and transverse waves:
		• Move
		Transfer Energy
	•	Understand the terms current, potential difference, voltage, resistance, conductor
		and insulator.
	•	Understand current and potential difference in series and parallel circuits.
Can:	•	Give examples of transverse and longitudinal waves.
	•	Be able to draw simple series and parallel circuits with correctly positioned ammeter
		and voltmeter.