

Curriculum Map	Subject	Science	Year	8 Strand B
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Unit	Summary	Skills	Assessment	British Values and SMSC	Career links	Cross-curricular links
Cells	Plant and animal cells, multicellular organisms	Using a microscope, calculating magnification	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community	Biologist and pathology	Health and safety applies to any practical subject.
Cellular respiration and gas exchange	Describing the functions of the breathing and CV system, forms of respiration	Investigating evidence of respiration	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community	Any medical or biological career, fitness or sports industry.	PE
Muscles and skeleton	Describe the role of the skeleton and the joints / muscles	Analysis of movement patterns	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community Contribution of British scientists to research	Osteopath / chiropractor. Medical jobs	STEM, PE
Diet and nutrition	Describing the process of digestion, role of salt in the diet and comparing / testing foods.	Carrying out food testing (GCSE RP ofr biology)	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community	Optometrist, medicine.	Photography and Art
CNS and Endocrine system	Describing the role of the CNS and comparing to the endocrine system. Role of nerves	Investigating reflex arcs and reaction times. Interpreting graph data of these	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community	Medical careers, osteopathy.	PE
Waves	Describing types of waves including components of a wave and accurate calculations incl. reflection and refraction of waves	Investigating waves and calculating wave speed, equation substitution.	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community	Sonor operator in the Royal Navy, audiologist	DT. Maths STEM
Energy calculations	Calculating power, comparing electrical resources and fuel bills	Practical skills – Calculating changes in energy stores, efficiency, Substitution into an equation. Rearranging equations Multi-step calculations	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community	Civil Engineering, housing energy certification surveyor	Linked to geography and reducing global warming, DT
Humans in the environment	How humans' impact on the Earth including using resources, how we contribute to pollution, the Carbon Cycle extinction events.	Analysing data and evidence, drawing conclusions, writing an argument to convince	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community	Geologist / Oceanography / climate scientist	History and geography
Microbes	Defining microbes, how they spread and grow, how the body uses and defends against them, vaccines and antibiotic resistance.	Using microbes eg yeast to make bread. Awareness of saying safe, especially sexually.	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community, UK Covid vaccines work, work of Jenner.	Pharmaceutical industry	Food tech

Reproduction in plants	Describing flowers / plants and how they reproduce	Problem solving in terms of the case studies of bees and vectors.	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community	Biologist, floristry, agriculture	Art, geography
Plants and stomata	Describing the role of photosynthesis in plants, how plants use and store products of photosynthesis as well as mineral deficiencies.	Microscope skills investigation of leaves / stoma and testing leaves for starch. Safety and working accurately.	Low stakes testing 'Do Now' 20 min End of Unit Retrieval Quiz Termly exam	Scientific community	Biologist, floristry, agriculture	Art, geography