

Curriculum Map	Subject	Science – Strand B	Year	9
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Unit	Summary	Skills	Assessment	British Values and SMSC	Career links	Cross-curricular links
Extended Genetics	Revisit classification & look at inheritance and variation, including evolution & extinction	using models Maths & probability	Retrieval quiz End of topic. Topic included on the end of half term Ks3 test points.	Scientific community – HSW ethics of cloning & farming practices. genetic modification	gardening, farming, (genetics) conservation	Food Tech -
Cells & Diffusion	Revisit Diffusion and how it occurs in organisms	Explain diffusion in different scenarios Practical skills – investigating diffusion	Retrieval quiz End of topic. Topic included on the end of half term Ks3 test points.	Scientific community – HSW	PE, medical, NHS	PE
Diet	Revisit digestion and look at the role of enzymes (biological catalysts)	Practical skills - RP Data analysis Justifying conclusions Evaluating methods	Retrieval quiz End of topic. Topic included on the end of half term Ks3 test points.	lifestyle impacts on health Governmental health policy	nutritionist, medical, NHS, waste management	Food tech, preserving food, nutrition - PE
Hearing	Ear structure and hearing loss	lifestyle impacts on health	Retrieval quiz End of topic. Topic included on the end of half term Ks3 test points.	lifestyle impacts on health Environmental health policy	Audiologist (hearing loss) Sound technician Environmental health NHS	link to sound, energy and wave topics
Moments & levers	Explore how levers work and are used. Design simple machines	Maths calculations (substitute. Rearrange & units) Design & investigate trebuchet	Retrieval quiz End of topic. Topic included on the end of half term Ks3 test points.	Using machines – simple and complex Links to wider environmental impacts	building site (various roles) plant machinery operator	History (trebuchet as a war machine)
Speed	Investigate and calculate speed & acceleration, interpreting graphical representations	maths – graphing, calculating (substitute, Rearrange & units)	Retrieval quiz End of topic. Topic included on the end of half term Ks3 test points.	Why do we have speed limits? Social	engineer, designer, materials,	
Biomimetics (GCSE skills)	Opportunity to explore the natural world looking at how designers mimic nature. Topics include termite mounds, adhesives, tardigrades, bioluminescence, bullet trains.	Enhance skills of investigation and applying knowledge to new and unfamiliar situations (AO2) in prep for GCSE. Maths skills – standard form, estimation, scale, units	Retrieval quizzes GCSE questions AO2 focus	Scientific community – HSW	design & engineering	DT