Yr8 Term 3 Science

Unit	Summary	Skills	Assessment	British Values and SMSC	Career links	Cross-curricular links
Energy and States of Matter	Define the term density Calculate density of a regular shaped object Calculate the density of an irregular shaped object Carry out simple calculations using the equation: Density = mass / volume To rearrange the equation: Density = mass / volume Gas Pressure – how changing the number of particles effects pressure Calculate pressure using the equation: Pressure = Force / Area Rearrange the above equation Describe and explain changed of state Describe and explain cooling curves	Interpret data Draw and interpret graphs Carry out simple equations Rearrange equations Construct methods Identify variables	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 3	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible use of imagination and creativity in their learning	Mechanical Engineer, divers, sports equipment,	Maths, Design Technology, Art,

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	Calculate efficiency					
Organs and disease	Describe and explain how enzymes functions The importance of enzymes in our bodies Food test for Starch and Glucose The heart, structure and function To describe and explain coronary heart disease	Interpreting results Making predictions Following a method Writing methods	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 3	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible use of imagination and creativity in their learning interest in investigating, and offering reasoned views about, moral and ethical issues. .	Doctor, Veterinarian, Nurse, epidemiologists, Virologists, pharmacist, biologists. Nutritionist	Maths, Technology, Food Tech, PE
Reactivity of Metals	Recognise how metals are obtained from ores To determine the reactivity of a metal	Making predictions Describing a method Identify variables	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 3	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible use of imagination and creativity in their learning	Engineer, Chemist, Pharmacist, Vet, Nurse, Doctor, Botanist. Material analyst, material scientists, jeweller.	Maths, Design Technology, Art
Ecosystems	Describe plant and animal adaptations. Describe and explain evolution Explain why some organisms become extinct	Interpret models Interpret data Persuasive writing	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 3	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible	Engineer, Chemist, Telecommunications, Mechanical engineer	Maths, Design Technology, Food Tech

	Explain how fossil fuels are formed Recognise the importance of biodiversity			use of imagination and creativity in their learning		
Space	Use key terms such as, universe, solar system, planet, moon, galaxy, stars comets, meteors Define the term weight Calculate weight on different planets Recognise what is meant by the big bang theory	Construct scientific questions Perform simple calculations Rearrange an equation	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 3	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible use of imagination and creativity in their learning interest in investigating, and offering reasoned views about, moral and ethical issues.	Doctor, Veterinarian, Nurse, epidemiologists, Virologists, pharmacist, biologists. Nutritionist, Mid wife	Maths, STEM