Year 7 Key Stage 3 Science 2026-2027

Curriculum Intent We believe that students deserve a broad and ambitious Science curriculum that enriches in skill and knowledge, which ignites curiosity and prepares them well for future learning or employment. Our curriculum is sequenced to build upon prior knowledge learnt from KS1, KS2 and KS3 and firmly embed the precise learning points that pupils need to succeed in their qualification and also to go on to further career success.

Term	Topic	Knowledge and Skills	Assessments	Careers	SMSC	SRE/ British Values	Literacy	Character Virtues
AUTUMN 1								
	Introduction to Science	Lab skills – to develop practical scientific and mathematical skills and knowledge.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Laboratory based. Careers relating to "The Scientific Method".	Moral: How Scientists work / investigate.	The need for rules to make a happy, safe and secure environment to live and work. A culture built upon freedom and equality, where everyone is aware of their rights and responsibilities.	Key words, reading, comprehension and homework tasks..	Moral: How Scientists work / investigate without bias Performance: Team work, confidence
	Cells, Tissues & Organs	To identify principal features of animal and plant cells and describe their function. To develop microscopy skills To identify the different	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Cell Biologists.	Spiritual: Learning about the surrounding world.	The need for rules to make a happy, safe and secure environment to live and work.	Key words, reading, comprehension and homework tasks..	Intellectual: critical thinking, reflection Performance: Team work, confidence.

Half Term								
AUTUMN 2								
	Particles	Relate the features of the particle model to the properties of materials in different states.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Material Scientists.	N/A	The need for rules to make a happy, safe and secure environment to live and work.	Key words, reading, comprehension and homework tasks..	Intellectual: Critical thinking Performance: Team work, confidence
	Digestive System	The organs of the digestive system and how each organ assists with the breakdown of food.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Links to medicinal careers.	Spiritual – learning about oneself.	The need for rules to make a happy, safe and secure environment to live and work.	Key words, reading, comprehension and homework tasks.	Moral (self-discipline) Intellectual (teamwork, focus, critical thinking).
Christmas Holiday								
SPRING 1								
	Classification	The range of living organisms and how they can be grouped. The work of a range of Scientists within classification.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Careers relating to the variety of life, for example ecology and conservation.	Spiritual – learning about the surrounding world.	Variety within the living world.	Key words, reading, comprehension and homework tasks.	Intellectual: Critical thinking, focus

	Separating Mixtures	Devise ways to separate mixtures based on their properties.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Material Scientists.	N/A	The need for rules to make a happy, safe and secure environment to live and work.	Key words, reading, comprehension and homework tasks.	Intellectual: Critical thinking Performance: Team work, confidence
Half Term								
SPRING 2								
	Acids & Alkalis	How metals react with acid, use of experimental data to suggest an order of reactivity of various metals, investigate pH with an investigation	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Chemistry – careers relating to making new materials and substances.	Spiritual: Learning about the world around us.	The need for rules to make a happy, safe and secure environment to live and work.	Key words, reading, comprehension and homework tasks..	Performance: teamwork, confidence, motivation Intellectual: critical thinking, reflection.
	Forces	To determine the different types of forces, investigate factors that affect the size of frictional or drag forces, determine the difference between mass and weight.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Spiritual: learning about the surrounding world.	The need for rules to make a happy, safe and secure environment to live and work.	Key words, reading, comprehension and homework tasks.	Intellectual: Critical thinking, focus. Performance: Team work, confidence.
Easter Holiday								
SUMMER 1								

	Energy	Identify energy stores and describe how energy is transferred between objects. Describe the term efficiency and calculate using the given equation. Also calculate power – the rate at which energy is transferred.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Physics relating to energy transfers, electrical energy production and transfer.	Spiritual – learning about the surrounding world.	The need for rules to make a happy, safe and secure environment to live and work.	Key words, reading, comprehension and homework tasks.	Intellectual: Critical thinking, focus Performance: Team work, confidence.
	Reproduction	Graph data relating to variation and explain how it may lead to the survival of the fittest, identify reproductive organs and describe their function. Explain how bodies change during puberty.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Careers relating to human biology.	Cultural: aware of differences.	What is sexual reproduction? Reproductive organs. Development of a foetus Birth The need for rules to make a happy, safe and secure environment to live and work. A culture built upon freedom	Key words, reading, comprehension and homework tasks.	Moral: Respect Performance: teamwork, confidence
Half Term								
SUMMER 2								

	Feeding Relationships	Energy transfer within an organism. Food chains and webs change a population of two organisms over time.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Careers relating to habitat conservation and ecology.	Spiritual: Learning about the world around us. Moral: human impact on the environment / food supply	A culture built upon freedom and equality, where everyone is aware of their rights and responsibilities.	Key words, reading, comprehension and homework tasks..	Performance: teamwork, confidence, motivation Intellectual: critical thinking, reflection.
	Speed, Pressure & Density	Calculating speed and representing data as a distance time graph. Calculating pressure and making links between how specific items make use of pressure to serve a particular function, for example snow shoes.	Lessons start with retrieval questions. End of topic assessment Pupils encouraged to reflect and amend work as required.	Careers related to the application of forces in a range of scenarios, e.g. athletics, diving etc.	Spiritual (Learning about the surrounding world).	The need for rules to make a happy, safe and secure environment to live and work.	Key words, reading, comprehension and homework tasks.	Performance (Teamwork, Confidence) Intellectual (Critical thinking, reflection).