	Links to KS2		Classification of materials as solids, liquids and gases. An awareness of contact and non-contact forces. Names of some forces. Knowledge of organisms. Parts of plants. Thermal energy transfer is taught as part of properties of materials. Life cycle of plants and animals. Knowledge of parts of the digestive system and circulatory system. Properties of liquids. Concept of solutions. Separation of solutions. Classification systems. Classifying living things. Adaptations of plants and animals. Food chains.					
	Intent	Statement of Intent	The aim of the science curriculum is to equip the pupils with the scientific literacy skills to make informed decisions about their future, to promote a love of science that will see them continue their scientific education, be curious about the world around them and have the knowledge and skills to question concepts and communicate ideas.					continue their scientific
		Timeline	Term 1 - 7 Weeks	Term 2 - 7 Weeks	Term 3 - 7 Weeks	Term 4 - 6 Weeks	Term 5 - 5 Weeks	Term 6 - 6 Weeks
KS3 Curriculum Overview	Implementation (Year 7)	Year 7 Overview	Observe, describe, explain and inves To introduce and build confidence ir To develop scientific investigative m	n 5 key ideas of KS3 science (cells, fo	rces, energy, particles and interdependence). ng.			
		sow	Skills Organisation Atoms Energy		Biological Systems Solutions, Compounds, and mixtures Astronomy		Ecology and Feeding Acids and Alkalis Electromagneticsm	
		Assessment Type & Unit Focus	Skills: Lab safety, Planning an investigation, Presenting data Analysing data, Drawing Conclusions Organisation: Characteristics of life, Organisational hierarchy. Atoms: Solids, liquids and gases, Changing state, Diffusion, Pressure. Energy: Energy stores, energy pathways and devices that transform energy. Methods of thermal energy transfer and insulation. Assessment is by progress checks with MAC at the end of each unit and a summary assessment of the three units. Practical skills are assessed throughout.		Biological Systems: Understand the workings of the human body Solutions, Compounds and mixtures: Separation techniques used in chemistry Astronomy: Phases of the Moon, Seasonal changes, Relative positions of the planets and their conditions compared to Earth Assessment is by progress checks with MAC at the end of each unit and a summary assessment of the three units. Practical skills are assessed throughout.		Ecology and feeding: An introduction to ecology A&A: Name some common acids and alkalis and classify solutions as acidic, alkaline or neutral, using indicators and pH values. Describe what happens to the pH of a solution when it is neutralised. Describe some everyday uses of acids, alkalis and neutralisation Elctromagneticsm: Describe magnetic fields of permenant and induced magnets. Explore the uses of electromagnets. Assessment is by progress checks with MAC at the end of each unit and a summary assessment of the three units. Practical skills are assessed throughout.	
	Implementation (Year 8)	Year 8 Overview	Observe, describe, explain and investigate scientific phenomena. To develop and build confidence in 5 key ideas of KS3 science (cells, forces, energy, particles and interdependence). To develop scientific investigative methodology and safe practical working.					
		sow	Chemical Reactions		Health and Diseases Periodic Table Light and Sound		Inheritance and Variation Environmental Chemistry Forces	
		Assessment Type & Unit Focus	Reproduction: Plant and animal repi birth, Menstrual cycle. Chemical Reactions: Chemical equat reaction, Energy in reactions. Electricity: Identify and construct se Understand the term voltage, currer electricity, Investigate electromagne Assessment is by progress checks wi a summary assessment of the three throughout.	tions, Combustion, Rates of ries and parallel circuits, nt and resistance, Describe static tism. th MAC at the end of each unit and	Health & Disease: Fitness, Diet, Bree bacteria cultures, Microbes, Defence Periodic Table: history of the period organisation. Light & Sound: Investigating shadow The Eye, Properties of sound, The Ea Assessment is by progress checks wi a summary assessment of the three throughout.	against disease. ic table and the properites of s, Reflection, Refraction, Colour, sr, Noise and ultrasound. th MAC at the end of each unit and	Inheritance & Variation: Classification variation, The human influence on v Environmental Chemistry: Weather atmosphere. Forces: Contact, non-contact forces, between particles & forces. Assessment is by progress checks wi a summary assessment of the three throughout.	ariation, GM, GE, Cloning. ing, ozone, history of the . How forces change motion, Link ith MAC at the end of each unit and
		Topic Texts	Comprehension tasks are contained v	within each each topic that provides	context to the topic being studied			
	Impact	Year Tracking	Data from end of topic assessments are collected by the Science department Tracking for whole school assesment is completed as per the school diary.					
		Literacy, Oracy, and Numeracy links	Literacy and oracy tasks are embedded within each topic and are designed to build confidence Numeracy is developed throughout the course by a range of methods including the calculation the data. Primary data is collected through a range of instruments.			fidence with the key words for the topic. ulation of means, the calculation of percentages, recording data in tables, presenting data graphically and looking for patterns in		
		How It Is Used / Skills Set Developed / Outcomes	Every unit contains suites of practicals for all classes to complete. This develops skills in planning investigations, using scientific equipment safely, collecting and recoring data, presenting data graphically, analysing results and presenting a conclusion. Further practical work is completed during most topics					ting data graphically, analysing the
		Links to Higher Education	KS3 provides the bedrock for the GCSE Science courses, which in turn leads on to a wide variety of Scientific courses and KS5 and in Higher Education.					
		Careers in the Curriculum	Career links to each topic are available that highlight a range of industries that rely on an understaning of the subject content.					