

SUBJECT OVERVIEW / LONG TERM PLAN

KEY STAGE 3 / DEPARTMENT Science

	AUTUMN		SPRING		SUMMER	
Year 7	7E Acids and Alkalis	7A Tissues and Transplants	7I Energy and Living	7B Sex and Science	7G What a Waste	7J Electrical Circuits
	Tooth in Acid	Heart dissection	Testing insulation	Egg in Jar	Dump/landfill	Wiring plug
	Taste testing	Microscopes	Energy in Food		Diffusion	Conductivity
	APP 17	Water Loss in leaves		APP 5	OET 7G	Making circuits
NC	<ul style="list-style-type: none"> • Chemical Reactions 	<ul style="list-style-type: none"> • Photosynthesis • Cells + organise 	<ul style="list-style-type: none"> • Fuel Uses and costs 	<ul style="list-style-type: none"> • Reproduction 	<ul style="list-style-type: none"> • Particulate matter 	<ul style="list-style-type: none"> • Energy changes
	AUTUMN		SPRING		SUMMER	
Year 8	8E Water	8A Food Glorious food	8C Doctors and Diseases	8I Heat Transfers	8F Materials and recycling	Practical Project
	Separating mixtures	Peanut Energy	CO2 and yeast	Heat conductors	Material properties	Genetics and Evolution
	Chromatography	Food tests	Agar Plates	Convection currents	Compound models	To include: Speciation DNA, Variation Environmental factors
	Water Cycle	Enzyme models				
	APP 19	Task 8A	APP 4	Mountaineering kit	APP 12	
NC	<ul style="list-style-type: none"> • Pure + impure substances 	<ul style="list-style-type: none"> • Nutrition + digestion • Cellular respiration 	<ul style="list-style-type: none"> • Health 	<ul style="list-style-type: none"> • Energy changes • Energy transfers 	<ul style="list-style-type: none"> • Energetics • Periodic table • Atoms, elements + compounds 	

	AUTUMN		SUMMER		SPRING	
	9K/L Waves	9B A model career	9J Satelites and Space	9H Flying Materials	Practical Project	Start on the accredited courses
	Sound Waves	Fat measurements	Visit To national Space centre	Mass in reactions	Forces and electromagnetism Electricity	BTEC for the able
	Light Waves	Caffeine Reaction time	Design of and build water rocket/build rocket via Rocket motor engine	Investigating alcohols		
	Use of ray boxes Use of fibre optics	Smoking Sue				OCR for non-attenders and low level
NC	• Waves	• Cellular respiration • Gas Exchange • Skeletal + muscle systems	• Space Physics	• Chemical reactions		

- Aim of science curriculum is to develop scientific knowledge and conceptual understanding, understand the nature and processes and methods of science and develop the uses and implications of science today and the future.
- Across the curriculum the development of scientific language and vocabulary will be encouraged at all times
- During lessons practicals will be delivered with emphasis on Scientific attitudes, experimental skills and investigations, analysis and evaluation and accurate measurements.
- Changes in Motion is studied in Key stage 4
- Describing motion is covered in Key stage 4 and in Maths
- Geography syllabus covers the composition of the Earth.