

Curriculum Overview: Science

We want our pupils to:

- Have a broad knowledge of all key areas in science
- Understand the world we live in and how science links to it
- Develop their questioning and reasoning skills and be able to use critical thinking and reasoning to solve problems
- Enhance students wonder. Excite them
- Develop practical skills which will aid them in adulthood

Pathway		Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
All students	KS2 NC	4	Animals and plants	Light, Sound and Electricity	Rocks and materials	Human Body	States matter	Forces and magnets
		5	Plants	States of matter	Human reproduction	Materials	Body systems	Diet and exercise
		6	Energy and Electricity	Light and Sound	Animals	Rocks and atmosphere	Classification and evolution	Space and Forces
	KS3 NC	7	Matter as particles Cells	Forces Separation	Magnetism Chemical reactions Space	Acids and alkalis Digestion and Health	Digestion and health Gas exchange Speed	Reproduction Waves
		8	Periodic Table Charge	Transport systems Energy and Power Energetics	Light Reaction of metals	Density and Pressure Bioenergetics	Co-ordination Circuits	Genetics Reactivity Interdependence
Adventure Pioneer	OCR Entry and/or OCR GCSE	9	B1-B2. Cells and reproduction	B3-B4. Nervous and endocrine system	C1-C2. Chemical reactions	C6. C12. Separating mixtures and CSI	C5. C8. Materials and metals	P1-P3. Waves and the EM Spectrum
		10	C4. C9. Atmosphere and Fuels	P4. P7. Energy and electricity supply	P5-P6. Alternative energy and nuclear power	B5-B7. Respiratory, circulatory and digestive systems	B9-B10. Animals	C10-C11. Rates of reaction
		11	B8. B11. Defence systems and Inheritance	C3. Atoms	P8-P10. Forces	P11-P12. Space	Revision	Study Leave
		11	Cells. Inheritance	Nervous and Endocrine System	Biology and Our Environment	Biology and Our Environment	Recap	Study Leave
Developing/ Explore	ASDAN/ OCR Entry	10	Human Machine ASDAN - (A2,4,6,7 and B1, 5) Entry - B1, B3, B4, B7		Forces and Energy ASDAN - (A2,3,6,7) Entry - P4, P7, P8, P9, P10		Chemical changes ASDAN - (A1,2,5,6 and B1, 3) Entry - C1, C2, C8, C10 and C11	
		11	Biological challenges ASDAN - (A1,3,5,7 and B4) Entry - B8, B9, B10, B11		Performance in Sport ASDAN - (A1,3,5,7 and B4) Entry B5, B6, B11		Space physics ASDAN - (A3,4,5,7 and B2) Entry P11, P12	Separating mixture sand CSI Entry C6, C12

KS4 Qualification Information

Students will complete either an ASDAN, Entry or GCSE qualification based on their pathway.