

KS4 Science Curriculum 2023-24

	Year 10			Year 11		
	Knowledge and skills	Enrichment	Curriculum links	Knowledge and skills	Enrichment	Curriculum links
Cycle 1	<p>Topics – Cell Biology, Organisation, Atoms and the Periodic Table, Bonding, Matter, Energy</p> <p>Assessment: End of topic, small assessments throughout.</p> <p>Careers – Medicine, Chemical engineer, design engineer</p>	<p>‘Street Science’ for students to at break and lunch. Science society, a club that takes part in events and competitions.</p>	<p>Maths – throughout all topics. PE – movement, circulation link to fitness DT – links to digestion and food groups.</p>	<p>Topics – Evolution, Ecology, Chemical Analysis, Chemistry of the Atmosphere, Using Resources, Waves, Magnetism, Space Physics.</p> <p>Assessment: End of topic, small assessments throughout. Mock Examinations.</p> <p>Careers – conservationist, sustainability officer, geologist, astrophysicist</p>	<p>‘Street Science’ for students to take part in experiments at break and lunch.</p>	<p>Maths – throughout all topics. Geography – links to sustainability.</p>
Cycle 2	<p>Topics – Infection and Response, Bioenergetics, Chemical Changes, Energy Changes, Radiation, Electricity</p> <p>Assessment: End of topic, small assessments throughout.</p> <p>Careers – Medicine, botanist, chemical engineer, electrician</p>	<p>‘Street Science’ for students to at break and lunch. Science society, a club that takes part in events and competitions.</p>	<p>Maths – throughout all topics. Recognising patterns.</p>	<p>Topics – Revision of all topics, including targeted revision for student specific areas.</p> <p>Assessment: End of topic, small assessments throughout. Mock Examinations.</p>	<p>‘Street Science’ for students to take part in experiments at break and lunch.</p>	<p>Maths – throughout all topics.</p>
Cycle 3	<p>Topics – Homeostasis, Rates of Reaction, Organic Chemistry, Forces</p> <p>Assessment: End of topic, small assessments throughout. Mock Examinations.</p> <p>Careers – medicine, counsellor, chemical engineering, petrochemistry, design engineer</p>	<p>‘Street Science’ for students to take part in experiments at break and lunch. Trips to the Cheltenham Science Festival.</p>	<p>Maths – throughout all topics. Using equations.</p>	<p>Topics – Revision of all topics, including targeted revision for student specific areas.</p> <p>Assessment: End of topic, small assessments throughout. Mock Examinations.</p>	<p>‘Street Science’ for students to take part in experiments at break and lunch.</p>	<p>Maths – throughout all topics. DT – electricity, wiring and household skills.</p>

