

What you will study in Year 10 GCSE Science (T - Triple Science Topic Only)

	Biology	Chemistry	Physics
Autumn	<p>Cell Biology</p> <ul style="list-style-type: none"> Cells Microscopes Cell division Transport mechanisms <p>Cell organisation</p> <ul style="list-style-type: none"> Body systems Food tests Enzymes Health issues Cancer Plant tissues and organisation 	<p>Atomic Structure</p> <ul style="list-style-type: none"> Atoms Elements and Compounds Electronic structure Periodic Table Metals/non-metals Transition metals (T) <p>Bonding and structure</p> <ul style="list-style-type: none"> Bonds States of matter Ionic compounds Giant covalent structures Properties metals and alloys Nanoparticles (T) 	<p>Energy</p> <ul style="list-style-type: none"> Energy types Work and power Energy transfer and insulation Efficiency Global issues
Spring	<p>Infection and response</p> <ul style="list-style-type: none"> Human defence systems Diseases Vaccines Treating diseases Drug development Plant disease and defence (T) Monoclonal antibodies (T) 	<p>Quantitative Chemistry</p> <ul style="list-style-type: none"> Principle of conservation Mass changes Moles Limiting factors Concentration of solutions Titration (T) Yield and economy (T) Gases (T) <p>Chemical changes</p> <ul style="list-style-type: none"> Reactivity series Acids and alkalis Salts Electrolysis 	<p>Electricity</p> <ul style="list-style-type: none"> Circuit components Current, potential difference Resistance Series and parallel Generating and transmitting electricity Power Static (T) Electric fields (T) <p>Particle physics</p> <ul style="list-style-type: none"> Density States of matter Changes of state Specific heat capacity Gas pressure Boyles Law (T)
Summer	<p>Bioenergetics</p> <ul style="list-style-type: none"> Photosynthesis Respiration Exercise Metabolism 	<p>Energy Changes</p> <ul style="list-style-type: none"> Endothermic reactions Exothermic reactions Cells/batteries/Fuel cells (T) 	<p>Atomic physics</p> <ul style="list-style-type: none"> Atomic structures Types of radiation and decay Half-life Hazards of radiation Uses of radiation (T) Nuclear fission/fusion (T) <p>Space (T)</p> <ul style="list-style-type: none"> Solar system (T) Orbits (T) Star lifecycle (T) Formation of elements (T) Red shift (T) Big Bang (T)