

What you will study in Year 11 GCSE Science (T - Triple Science Topic Only)

	Biology	Chemistry	Physics
Autumn	<p><b>Homeostasis and response</b></p> <p>Homeostasis Nervous system Endocrine system Blood sugar regulation Hormones in reproduction Fertility and contraception Temperature regulation (T) The brain and eyes (T) Fluid regulation (T) Plant responses (T) Plant hormones (T)</p> <p><b>Inheritance</b></p> <p>Types of reproduction Meiosis DNA and the genome Genetic inheritance Inherited disorders Sex determination Selective breeding Genetic engineering Variation Evolution Extinction Classification</p> <p>DNA structure (T) Understanding genetics (T) Cloning (T) Speciation (T)</p>	<p><b>Rates of reaction</b></p> <p>Collision theory Factors affecting rates Catalysts Reversible reactions Equilibrium</p> <p><b>Organic chemistry</b></p> <p>Hydrocarbons Distillation Combustion Cracking</p> <p>Alkenes (T) Polymerisation (T) Alcohols (T) Carboxylic acids (T)</p>	<p><b>Forces</b></p> <p>Speed and acceleration Motion Forces Vectors Weight and mass Newton's laws Velocity Momentum Stopping distances</p> <p>Pressure (T) Moments (T) Levers (T)</p>
Spring	<p><b>Inheritance (continued from above)</b></p> <p><b>Ecology</b></p> <p>Ecological communities Adaptations Cycles Biodiversity Impact of human activities</p> <p>Decomposition (T) Biomass (T) Food security (T) Farming techniques (T) Biotechnology (T)</p>	<p><b>Chemical analysis</b></p> <p>Pure substances Formulation Chromatography Gas tests</p> <p>Flame tests (T) Identifying substances (T) Instrumental methods (T)</p> <p><b>Atmosphere</b></p> <p>Changing atmosphere Greenhouse gases Global warming Pollutants</p> <p><b>Using resources</b></p> <p>Using Earth's resources Potable water Water treatment Metal extraction</p> <p>Corrosion (T) Alloys (T) Ceramics, polymers and composites (T) Haber process (T) Fertilisers (T)</p>	<p><b>Waves</b></p> <p>Wave types and speed Reflection Refraction Light EM Spectrum</p> <p>Sound/ultrasound (T) Seismic waves (T) Colour (T) Lenses (T) Radiation (T)</p> <p><b>Magnetism</b></p> <p>Magnets &amp; electromagnets Motor effect</p> <p>EMI &amp; generators (T) Transformers (T)</p>
Summer	<p><b>Final revision</b></p>	<p><b>Final Revision</b></p>	<p><b>Final revision</b></p>