

## Year 11 Sciences Overview

Students learn Science through three rotations that consist of one rotation each of Biology, Chemistry, and Physics with a specialist teacher in each rotation.

Unit	Key Concept	Related Concept	Global Contexts & Explorations	Statement of Inquiry	Skills	Areas of learning
The Innovations of Life	Change	Interaction & Transformation	Scientific and Technical Innovation	Observing how interactions in nature result in change over time, allows humans to use innovation to modify organisms and transform our world.	Communication, Information literacy	<ul style="list-style-type: none"> <li>- Human reproduction</li> <li>- Cell division and DNA replication</li> <li>- Structure of DNA</li> <li>- Mendelian genetics</li> <li>- Biotechnologies</li> <li>- Evolution &amp; natural selection</li> </ul>
Chemistry	Systems	Conditions & Consequences	Scientific and Technical Innovation	System changes are dependent on the conditions and consequences placed on them.	Communication, Creative thinking skills	<ul style="list-style-type: none"> <li>- Stoichiometry</li> <li>- Kinetics</li> <li>- Enthalpy</li> <li>- Reactivity series &amp; REDOX</li> <li>- Organic chemistry</li> <li>- Electrochemistry</li> <li>- Gas laws</li> </ul>
EPCC - Energy, Power and Climate Change	Change	Energy, Environment	Globalisation and Sustainability - human impact on the environment.	Human usage of energy sources impacts the environment and is linked to climate change.	Critical thinking Transfer	<ul style="list-style-type: none"> <li>- Global warming and energy sources</li> <li>- Electric circuits</li> <li>- Magnetism and magnetic induction</li> </ul>