

Long term plan Key Stage 4 Science

Science	Topics, in order
Year 10	<ol style="list-style-type: none">1. Atomic structure <i>and the Periodic table</i> - trends and reactions2. Bonding - ionic, covalent and metallic3. Chemical changes4. Rate and equilibrium5. Electrolysis6. Crude oil and fuels7. Chemical analysis8. Treating water9. Energy stores and transfers - Gap identified due to covid lockdowns10. Energy conservation11. Forces and motion12. Molecules and matter12. Density13. Electricity in the home14. Radioactivity15. Cells16. OrgansSystems17. Plant science - tissues and organs in plants and photosynthesis18. Communicable and noncommunicable diseases
Year 10 Triple Science	<ol style="list-style-type: none">1. Atoms and elements2. Chemical reactions3. Hydrocarbons4. Forces and pressure,5. Static Electricity and charge6. Radiation7. Homeostasis in action8. Health

<p>Year 11 Combined Science</p>	<ol style="list-style-type: none"> 1. Acids and Alkalis 2. Chemistry Calculations - 3. The Earth's Resources - Extracting metal 4. Earth's atmosphere 5. LCA 6. Properties of waves <i>including</i> Electromagnetic spectrum 7. Magnets and Magnetism 8. Forces doing work 9. Photosynthesis 10. Organ Systems - Nervous system, Reproduction 11. Variation (genetics) and evolution 12. Biodiversity 13. Ecosystems 14. Recycling materials 15. Classification <p>Revise Paper 1 content Work through the revision list developed from areas that require development in assessments - Use GCSE questions as focus so that students are able to see how to apply knowledge to the questions set.</p>
<p>Year11 Triple Science</p>	<ol style="list-style-type: none"> 1. Chemical reactions 2. Required practicals 3. Using our resources 4. Polymers 5. Waves 6. Electromagnetic spectrum 7. Induced potential 8. Space 9. Homeostasis In action 10. Theories Of Evolution And Genetics 11. Ecology 12. Sustainable Food