



Curriculum overview Triple Science

NORTHGATE
High School

GCSE Biology AQA 8461, GCSE Chemistry AQA 8462, GCSE Physics AQA 8463

Year	Biology	Chemistry	Physics
9	<p>Topic 1 - Cell structure</p> <p>Topic 2 part 1 – Organisation, animal tissues, organs and organ systems</p> <p>Topic 2 part 2 – Plant tissues, organs and systems</p>	<p>Topic 1.1 – Atomic structure</p> <p>Topic 4 – Chemical changes part 1: metals and acids</p> <p>Topic 8 – Chemical Analysis</p> <p>Topic 6.1 – Rates of reactions</p>	<p>Topic 8 - Space</p> <p>Topic 5 - Forces part 1</p> <p>Topic 6 - Waves</p>
10	<p>Topic 3 – Infection and response</p> <p>Topic 4 – Photosynthesis and respiration</p> <p>Topic 5 – Homeostasis and response</p> <p>Topic 7 part 1 – Adaptations, interdependence and competition, ecosystems, biodiversity *</p>	<p>Topic 1.2 – The Periodic table</p> <p>Topic 2.1 – Chemical bonds, ionic, covalent and metallic</p> <p>Topic 5 part 1 – Energy changes</p> <p>Topic 6.2 – Reversible reactions and dynamic equilibrium</p> <p>Topic 7 – Organic chemistry</p> <p>Topic 9 – Chemistry of the atmosphere *</p> <p>Topic 10 part 1 – Using resources *</p>	<p>Topic 7 – Magnetism and electromagnetism</p> <p>Topic 4 – Atomic structure</p> <p>Topic 5 – Forces part 2</p> <p>Topic 3 – Particle model of matter *</p>
11	<p>Topic 7 part 2 – Levels or organisation, trophic levels in an ecosystem and food production</p> <p>Topic 6 part 1 – Reproduction, DNA, selective breeding, genetic engineering, resistant bacteria and classification</p> <p>Topic 6 part 2 – Inheritance, sex determination, variation, extinction, evolution and fossils *</p>	<p>Topic 10 part 2 – Materials and the Haber process</p> <p>Topic 2.2 – Relating bonding and structure to properties</p> <p>Topic 3 – Quantitative chemistry</p> <p>Topic 4 – Chemical changes part 2: Electrolysis *</p> <p>Topic 5 part 2 – Batteries and fuel cells *</p>	<p>Topic 1 – Energy</p> <p>Topic 2 – Electricity</p> <p>Recap of required practicals *</p>

* In Years 10 and 11 these topics can be taught at any point in the year by the teacher who sees the group twice per week.