

## Science Curriculum

### Rationale for topic choices in each year group:

Y10 pupils receive 5 hours of science teaching a week. They study AQA GCSE Combined Science: Trilogy. Science is a set of ideas about the material world. Included in this GCSE course are all the parts of what good science is at GCSE level: whether it be investigating, observing, experimenting or testing out ideas and thinking about them.

The way scientific ideas flow through the specifications will support students in building a deep understanding of science. This will involve talking about, reading and writing about science plus the actual doing, as well as representing science in its many forms both mathematically and visually through models. These qualifications encourage the development of knowledge and understanding in science through opportunities for working scientifically.

### Long Term Plan:

Year group	Autumn term	Spring term	Summer term	Schemes of work and further information	How are pupils assessed?
<b>10</b>	<p><b><u>Biology (Topics 1-4 )</u></b></p> <p>Cell biology Organisation Infection and response Bioenergetics</p> <p><b>Plus Required Practical's</b></p>	<p><b><u>Chemistry (Topics 8-9)</u></b></p> <p>Atomic structure and Periodic Table Bonding, structure and properties of matter Quantitative chemistry Chemical changes Energy changes</p> <p><b>Plus Required Practical's</b></p>	<p><b><u>Physics (Topic 18-21)</u></b></p> <p>Energy Electricity Particle model of matter Atomic structure</p> <p><b>Plus Required Practical's</b></p>	<p><a href="http://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF">http://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF</a></p> <p><a href="http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-GCSE-COMMAND-WORDS.PDF">http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-GCSE-COMMAND-WORDS.PDF</a></p> <p><a href="http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-GCSE-SUBJECT-VOCAB.PDF">http://filestore.aqa.org.uk/resources/science/AQA-SCIENCE-GCSE-SUBJECT-VOCAB.PDF</a></p> <p><a href="http://www.aqa.org.uk/resources/science/gcse/teach/maths-skills-in-GCSE-sciences">http://www.aqa.org.uk/resources/science/gcse/teach/maths-skills-in-GCSE-sciences</a></p> <p><a href="http://www.aqa.org.uk/resources/science/gcse/trilogy/teach/schemes-of-work">http://www.aqa.org.uk/resources/science/gcse/trilogy/teach/schemes-of-work</a></p>	<p>Pupils work is assessed against 3 assessment objectives (AO).</p> <p>It is a linear specification, with tiered exams to facilitate all pupils in realising their potential. There are six equally weighted papers. Each of the papers will assess knowledge and understanding from distinct topic areas</p> <p>Please refer to AO and grading framework in the chart below.</p>

