

*Inspire, Believe, Support, Achieve*



## Year 7 to Year 11: Key content and skills - **SCIENCE**

**Y11**

Students become more confident in their analysis and evaluation skills both in practical work and in theory topics, for example, considering alternatives to fossil fuels. They carry out experiments appropriately, having due regard to the correct manipulation of apparatus, the accuracy of measurements and health and safety considerations.

**Y10**

Students practise using scientific theories and explanations to develop hypotheses and plan experiments to make observations, test hypotheses or explore phenomena. Students begin to develop their synoptic thinking, making connections between different topics and relating concepts in more than one context.

**Y9**

Students develop their scientific literacy skills through oracy in class and writing responses in more depth. Students begin to use more chemical formula to represent chemicals and they apply more maths in science. In physics students begin to design their own practicals in the electricity topic.

**Y8**

Students build on their investigative skills carrying out more independent science practical work. There are more advanced models introduced, and used, for example in the Forces and Atomic Structure topics. Students also begin fieldwork in their Ecology topic developing sampling techniques.

Please see separate document for Year 7