

KS4 Physics at SGTG

In KS4 Physics we aim to give our students a good understanding of all the concepts that underpin the GCSE AQA course (the AQA Trilogy Course for those sitting the combined GCSE, and the stand-alone AQA Physics GCSE for those in the top sets sitting separate GCSEs in each of the three disciplines), as well as ample opportunities to extend and develop this understanding through mirroring exam technique and questions. We feel that the best way to support development of this understanding is through experiments, and we ensure that we cover all of the required practicals specified by AQA.

Obviously we do all this through a highly supportive and structured scheme of work that seeks not only to deliver the content in a way that is equally accessible to all our students but to also engender a real sense of fun and excitement in all that they do, and seeks to enhance our students wonder in the Physical world. We hope that through this course of study our students get a better understanding of not only of the laws that govern all actions in the Universe but a real sense of awe and wonder at how these laws interact to form a comprehensive set of equations that allow us to predict and develop complex aspects of this Science. Although mathematical ability can be a barrier to learning Physics we aim to support all students to ensure that they have the tools needed to be successful at GCSE.

KS4 Physics Course Content

Year 10 Units

Energy
Electricity
Particle Model
Radioactivity

Year 11 Units

Forces
Waves
Magnetism and Electromagnetism
Space