

PHYSICS

AS and A level Physics gives the opportunity to explore the phenomena of the universe and to look at theories that describe what is observed. This subject combines practical skills with theoretical ideas to develop hypotheses to describe the physical universe. You will learn about everything from kinematics to cosmology and many recent developments in fascinating topics like particle physics.

Physics is an excellent subject that will demonstrate to an employer that you have analytical and mathematical skills that you can apply to real life situations. There are many possible career paths that it will create for you, for example Engineering, Medicine, Forensic Science, Astronomy, Cosmology, Rocket Scientist, Astronaut and many more.

ENTRY REQUIREMENTS

A good grounding in Physics is essential and a B or higher at GCSE is the major requirement. A high competence in Mathematics is reasonably important as well as the ability to write good English that is scientifically accurate. A general interest in science would be helpful. Physics A level would be an excellent subject to study alongside either or both of the other two sciences, much of what you learn in physics will complement the knowledge you will gain in Biology and Chemistry.

EXAMINATION BOARD

AQA

MODULES

AS

Unit 1: Includes Particles, Quantum Phenomena and Electricity.

Unit 2: Includes Mechanics, Materials and Waves.

Unit 3: This is the investigative and Practical skills assessment. This involves performing an experiment in class time then a one hour written exam.

A2

Unit 4: Fields and Further Mechanics.

Unit 5: Nuclear and Thermal Physics (plus an optional module)

Unit 6: Is similar to Unit 3.