



The Oldershaw School

A Level Physics- HOD: Miss A Brennan

Course Outline & Exam Ratio

Entry requirements are grade 6 in GCSE Physics or 6-6 in Combined Science and a 6 in GCSE Mathematics.

The course consists of 13 topics of study which are assessed by papers 1 and 2. Practical work is teacher assessed via a series of 16 core practical activities and further tested by the synoptic paper 3 which also draws upon knowledge and understanding from the full range of content. Students will receive a Practical Mastery Certificate having completed all practical work competently.

Year 12

Students being to study topics including electric circuits, mechanics and nuclear physics. Students will undertake a number of required practicals which will enable them to develop higher level thinking skills to prepare them for A level and higher education. A decision will be made based upon the student as to whether the AS level exams are taken.

Year 13

Topics studied in year 12 are built upon in year 13, including mechanics and working as a physicist. New topics including space and thermodynamics are also completed. Having now completed the full course, students are assessed as follows:

· Paper 1- 1hr 45m- 90 marks- 30% Advanced Physics I

Working as a physicist, Mechanics, Electric circuits, further mechanics, Electric and magnetic fields, Nuclear and particle physics.

· Paper 2- 1hr 45 m- 90 marks- 30%- Advanced Physics II

Working as a physicist, Space, Nuclear radiation, Gravitational fields, Materials, Waves and the particle nature of light, Thermodynamics, Nuclear radiation, Oscillations

· Paper 3- 2hr 30 m- 120 marks- 40%- General and practical principles in Physics-120 marks-40%

All topics from the two year course and practical skills and techniques.

Progression Routes

A level physics supports application and entry to pure and applied physical science courses at university e.g. Physics, Astrophysics, Geophysics and Climatology as well as being required for most engineering courses e.g Mechanical, Civil, Aeronautical and associated studies such as Architecture and Product Design.

Physics is also required for certain medical career paths, especially where it supports the specialisation e.g. X-ray Photography, Nuclear Medicine, NMR Imaging, Radiotherapy. A-level Physics is advantageous in a wide range of employments and apprenticeships, the possibilities are vast.

Enrichment Opportunities

We organise STEM trips to local universities, in particular University of Liverpool where Dr Paul Sapple, an alumnus of Oldershaw heads the Ogden Trust outreach programme.

**Apply
Here**