Physics

CANNOCK CHASE HIGH SCHOOL
ACHIEVEMENT FOR ALL

Course: A Level Physics

Entry Requirements**:** A grade 66 or above in combined science/separate sciences and a grade 7 or above in Maths or A grade 66 or above in combined science/separate sciences and a grade 6 or above in Maths if studying A Level Maths.

Aims of the Course**:**
Physicists explore the fundamental nature of almost everything we know of. They probe the furthest reaches of the Earth to study the smallest pieces of matter and enter a world deep beneath the surface of normal human experience. The aims of the course are to encourage students to: develop their interest in, and enthusiasm for Physics, including developing an interest in further study and careers in Physics. The subject combines practical skills with theoretical ideas to develop descriptions of the physical universe.

Course Content**:**

- Measurements and errors
- Particles and Radiation
- Waves
- Mechanics and Energy
- Electricity
- Thermal Physics
- Fields
- Nuclear Physics
- Optional topics in Astrophysics, Medical Physics, Engineering Physics, Turning Points in Physics and Electronics.

Assessment:
A Level: Content from the whole two years of study will be assessed. Students will sit three examination papers at the end of the two years. These exams will test content, application, and breadth of understanding of practical science.

Coursework/Practicals:
There is no coursework aspect to this qualification. However, students will have to complete a selection of twelve specified practical's that form the practical endorsement. These practical's will be referred to in question papers and aim to give students the skills and confidence needed to investigate the way things behave and work. It will also ensure that students are prepared for Physics-based subjects at university.

Career Opportunities:
Studying A level Physics offers an infinite number of amazing career opportunities including, healthcare scientist, medical physicist, geophysicist, meteorologist, structural engineer, civil engineer, acoustic engineer. You could also move into engineering research, astrophysics, chemical physics, nanotechnology, renewable energy and more, the opportunities are endless.

Contact: Mr Jones or Mrs Platts