LOUGHBOROUGH
Grammar School

Physics

Head of Department: A Lloyd (a.lloyd@lsf.org)

Exam Board: AQA (8463) Course: GCSE Physics

GCSE study in Physics provides the foundation for understanding the material world. Scientific understanding is changing our lives and is vital to the world's future prosperity. All pupils should learn essential aspects of the knowledge, methods, processes and uses of science. They should gain appreciation of how the complex and diverse phenomena of the natural world can be described in terms of a small number of key ideas that relate to the sciences and that are both inter-linked and of universal application.

This new specification contains a broad range of Physics topics that are designed to engage and stimulate pupils' interest, whilst providing the knowledge and understanding required for progression to A Level. The specification emphasises scientific knowledge, the application of science and the scientific process.

Subject content

1. Energy
2. Electricity
3. Particle model of matter
4. Atomic structure
5. Forces
6. Waves
7. Magnetism and electromagnetism
8. Space physics

In the GCSE course, there will be no module exams, thus ensuring the maximum amount of time for teaching Physics and greater scope for practical work. At the end of Year 11 there will be two 1 hour 45 minute examinations each contributing 50% towards the final mark. There is further information regarding this qualification available on the AQA website at **www.aqa.org.uk/subjects/science/gcse/physics-8463**

GCSE Physics is a highly regarded qualification which is designed to develop analytical and investigative skills. It is an essential foundation for any pupil wishing to study the subject to A Level, and is vital for those considering a career in the physical sciences or engineering. The subject offers a crucial insight into how the universe works and even how it came into being.