KS5 Curriculum: Physics

Curriculum Vision

Exam board: OCR Physics A H556

To develop insight and understanding of the natural and physical world based on evidence and reasoning, and the pursuit of knowledge for its own sake.

Ambitions

To develop:

1. Good physicists who have an interest and understanding of the living world around them.
2. Pupils who are able to work independently.
3. Pupils who are able to take risks and be confident enough to tackle tasks.
4. Pupils who are self-motivated to research and learn beyond the limits of specifications.
5. Pupils who are scientifically literate and confident with scientific language.
6. Students who are equipped with the knowledge and skills to move on to careers or further education in sciences, engineering and medicine.

Curriculum Profile

Year 12

Autumn Term 1	Autumn Term 2
Module 1&2-Foundations of Physics & Practical Skills. Module 4-Waves 1.	Module 4-Waves 2. Module 3-Force and motion. Module 3-Materials.

Spring Term 1	Spring Term 2
Module 3-Laws of motion and momentum. Module 3-Work, Energy and Power. Module 4- Electrons.	Module 4- Electrons. Module 4- Quantum Physics.

Summer Term 1	Summer Term 2
Module 4- Electrons.	Module 5- Circular motion & Gravitational fields. Module 6-Medical Imaging.

Year 13

Autumn Term 1	Autumn Term 2
Module 5- Gravitational fields. Module 5- Oscillations. Module 6- Capacitance & Electric fields.	Module 5- Oscillations. Module 5- Thermal Physics. Module 6- Nuclear and Particle Physics.

Spring Term 1	Spring Term 2
Module 5- Thermal Physics. Module 6- Nuclear and Particle Physics. Module 5- Astrophysics.	Module 5- Astrophysics. Module 6- Electromagnetism.

Summer Term 1	Summer Term 2
Revision and Examination techniques.	Public Examinations.

Please note that this timeline may be subject to change.

Assessment and Feedback

All students will:
• Have at least one piece of assessed work reviewed by their teacher per half-term (this increases to two pieces of assessed work if students receive five or more taught hours per fortnight).
• Receive feedback which outlines how they should develop their learning. This feedback should be summative, highlighting both key strengths and key areas for development in students' work.
• Be given the opportunity to act upon their feedback in a structured task. This task should then be reviewed again by the subject teacher. A review of this task can act as the second assessed task.

Resources to support learning beyond the classroom

Specification:

OCR Physics A, H556

https://www.ocr.org.uk/qualifications/as-and-a-level/physics-a-h156-h556-from-2015/specification-at-a-glance/

Links to relevant websites/online resources:

Isaac Physics: https://isaacphysics.org/

Physics and Maths tutor: https://www.physicsandmathstutor.com/physics-revision/a-level-ocr-a/