

Year 10 Physics

Physics GCSE follows the AQA specification and builds on work studied at KS3 whilst also encountering new content that links into A' level such as radioactivity.

There are 8 units (P1-P8) examined in two papers at the end of Y11; paper 1 examines P1-4, paper 2 examines P5-8

There is no coursework but there are "Required Practicals" which students will be asked about in exams - these are integrated into lessons throughout the course along with other practical work and the development of broader scientific skills

At the end of each topic students complete a topic test made up of past exam questions. This is then marked and graded and used to identify strengths and areas in need of attention. Note that many topics overlap and so end-of-topic assessments may contain elements from different units which also acts as retrieval practice.

Each lesson begins with a Brain in Gear retrieval task and a Key Learning Question. There will be teacher input of some kind followed by tasks which use prior learning to develop greater knowledge understanding. Once understanding is established then students develop their ability to apply this to unfamiliar situations.

Note: P1 is taught at the end of year 9

Year 10 Curriculum	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Topic(s)	P2: Electricity Current, potential difference and resistance Series and parallel circuits Domestic uses and safety	P2: Electricity (Cont'd) Static electricity P3: Particle Model of Matter Changes of state and the particle model	P3: Particle Model of Matter (Cont'd) Internal energy and energy transfers Pressure P4: Atomic Structure Developing the model of the atom Atoms and isotopes	P4: Atomic Structure Nuclear radiation and half-life Hazards and uses of radiation Nuclear fission and fusion	P5a: Forces Forces and their interactions Work done Forces and elasticity Moments, levers and gears Pressure in fluids	P5b: Forces in Motion Describing motion along a line Motion graphs Newton's laws Y10 Summer exam (P1-P4) - Revision - Feedback - Support
Assessment	Tests half way through each topic usually set as homework 'Key pieces' of work Formal end of unit test End of Year 10 exam covering P1-4					

Independent Work

Regular homework covering a variety of skills:

- GOALs (“Go Off And Learn”) for factual recall
- Application
- Practice exam questions to gain experience of recall, application, unfamiliar contexts and extended response
- Research
- Write ups of experimental work, especially work related to the Required Practicals
- Increasing use of Tassomai as the year progresses