



Physics - IAL EdExcel

Approximate available lessons based on 5 lessons per week over 37 week year; assuming approximately 16 lessons missed for holidays/other subject activities/PSHE/exams

Exact curriculum timings are approximate due to holidays/ other subject trips and activities / PHSE / internal examinations

All topics across KS5 will have ongoing formative assessment including:

- Questioning techniques
- Peer/self-marking and assessments
- Written exercises
- Presentations
- Class activities
- Practical work

All topics will have some form of summative assessment to test the knowledge and skills covered within the topic. These will take the forms of:

- End of topic tests
- Scientific Investigations

All topics will include practical work to ensure that the links between practical and theory are encouraged and emphasised.

	Year 12 Physics	Year 13 Physics
Topic and Content	<p>Unit 1 T1: Forces and Motion Fluids, viscosity and TV T2: Hooke's Law Key practicals</p> <p>Unit 2 T3: Waves and particle nature of light T4: Electric circuits</p> <p>Unit 3 application of practical skills</p>	<p>Unit 4 T5: Further mechanics T6: Electric and magnetic fields T7: Nuclear and particle physics</p> <p>Unit 5 T8: Thermodynamics T9: Nuclear decay T10: Oscillations T11: Astrophysics and cosmology</p> <p>Unit 6 application of experimental methods</p>
Skills assessed	<p>AO1: Knowledge and understanding of scientific ideas AO2: Application of knowledge and understanding, analysis and evaluation of science AO3: Experimental skills, analysis and evaluation of data and scientific methods AO4: Scientific literacy and communication</p>	<p>AO1: Knowledge and understanding of scientific ideas AO2: Application of knowledge and understanding, analysis and evaluation of science AO3: Experimental skills, analysis and evaluation of data and scientific methods AO4: Scientific literacy and communication</p>
Method of Summative Assessment	<p>Projects Investigations End of Topic Tests Public Examinations in Jan and June</p>	<p>Projects Investigations End of Topic Tests Public Examinations in Jan and June</p>