



## Physics A-Level Overview – 2022

- The A-level assessment will consist of three papers;
  - Paper 1 will be 1 hour 45 minutes (90 marks) – this accounts for 30% of your overall grade
  - Paper 2 will be 1 hour 45 minutes (90 marks) – this accounts for 30% of your overall grade
  - Paper 3 will be 2 hours and 30 minutes (120 marks) – this accounts for 40% of your overall grade
- A formula sheet will be supplied with the examination, either as a separate document or printed on the back of the examination.
- Any outside materials are not permitted in this examination

The topic guidance published for the exams taking place in May-June 2022 is as follows;

Paper 1 will be based upon	Specifically (textbook page numbers included);
<ul style="list-style-type: none"><li>• Topic 8 / PRO</li><li>• Topic 3 / SPC</li><li>• Topic 6 / PRO</li><li>• Topic 2 / HFS</li><li>• Topic 2 / HFS</li><li>• Topic 7 / TRA</li><li>• Topic 8 / PRO</li></ul>	<ul style="list-style-type: none"><li>Particle interactions (135 – 143)</li><li>Resistivity and circuit principles (37 – 43)</li><li>Conservation of momentum and circular motion (97 – 107)</li><li>Work done, energy and power (17 – 30)</li><li>Graphical representation of motion (9 – 11)</li><li>Magnetic fields and Faraday's law (121 – 128)</li><li>Particle accelerators (132 – 133)</li></ul>
Paper 2 will be based upon	Specifically (textbook page numbers included);
<ul style="list-style-type: none"><li>• Topic 11 / STA</li><li>• Topic 5 / MUS &amp; SPC</li><li>• Topic 9 / STA</li><li>• Topic 13 / BLD</li><li>• Topic 5 / MUS</li><li>• Topic 5 / SUR</li><li>• Topic 10 / STA</li></ul>	<ul style="list-style-type: none"><li>Radioactive decay (168 – 173)</li><li>Photoelectric effect and spectra (91 – 96)</li><li>Heat and Gases (148 – 152)</li><li>Simple harmonic motion (182 – 185)</li><li>Superposition of waves in strings (59 – 68)</li><li>Lenses (75 – 80)</li><li>Doppler Effect (161 – 162)</li></ul>
Paper 3 will be based upon	Specifically (textbook page numbers included);
<ul style="list-style-type: none"><li>• Topic 1 / WAP</li><li>• Topic 1 / WAP</li><li>• Topic 11 / STA</li><li>• Topic 5 / MUS</li><li>• Topic 2 / HFS</li><li>• Topic 3 / DIG</li><li>• Topic 3 / SPC</li><li>• Topic 13 / BLD</li></ul>	<ul style="list-style-type: none"><li>Graphical analysis of data (1 – 8)</li><li>Experimental error and uncertainty (1 – 8)</li><li>Radioactive decay (168 – 173)</li><li>Superposition of waves (inc. Core Practical 6) (59 – 68)</li><li>Conservation of energy and conservation of momentum (21 – 28)</li><li>The potential divider (42 – 43)</li><li>Series and parallel circuits (33 – 36)</li><li>Simple harmonic motion (182 – 185)</li></ul>

There is also a CPAC practical endorsement that will be completed in lesson time prior to the examination.

In terms of revision;

- We strongly recommend the use of online materials such as [Edexcel A-Level Physics Revision - Physics & Maths Tutor \(physicsandmathstutor.com\)](https://www.edexcel.org.uk/revision/physics) to practice exam material and [Seneca - Learn 2x Faster \(senecalearning.com\)](https://www.senecalearning.com/) for revision of key ideas
- Your physics teachers are available for lunchtime support and guidance
- Lesson time after the second assessment week will be directed towards targeted revision based on feedback from assessment 1 and assessment 2 completed prior to the Easter Holidays