

Curriculum area Physics AQA A-level (7408)

Topics	Year Curriculum	How you can support your child's learning at home E.g. Books, Websites, Family learning through visits
Section 6 – Further Mechanics and Thermal Physics 17. Circular Motion 18. Simple Harmonic Motion 19. Thermal Physics 20. Gas Laws	<p>A-Level examination is taken in three papers each 2hours in length. Papers 1 & 2 have a 34% weighting while Paper 3 carries a 32% weighting towards the overall grade.</p> <p>Paper 1 contains 60 marks of short and long answer questions and 25 multiple choice questions. This paper covers all AS (Y1) content as well as content from (Y2): Section 6: 17 .Circular Motion and 18. Simple Harmonic Motion topics</p> <p>Paper 2 contains 60 marks of short and long answer questions and 25 multiple choice questions on content from across all AS (Y1) and Section 6 – 8 of the (Y2) content.</p> <p>Paper 3 contains 45 marks of short and long answer questions on practical experiments and data analysis. Then 35 marks of short and long answer questions on the selected optional section (students only read one option).</p>	<p>Online material available. This can be found on the AQA website: http://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408</p> <p>Other useful websites are; http://www.s-cool.co.uk/a-level/physics http://www.cyberphysics.co.uk/ http://physicsnet.co.uk/ https://www.physicsandmathstutor.com https://www.revisely.co.uk https://www.senecalearning.com</p> <p>Students will be issued with a textbook ISBN 978-0198357728 for use during the course. A secondary textbook will be available as a hard copy in school or access to an online version through a log-on and password.</p> <p>Students have the option of purchasing through school (price) a range of support books including revision guides. Alternatively these and others can be purchased at retail prices in book shops or online.</p> <p>Students will need a 4-ring A4 Folder for their everyday work to bring to and from school this should contain a copy of the practical skills booklet and data & formulae booklet that they will be provided with.</p> <p>Students will also require an A4 Lever Arch file to store completed notes, questions and assessments in to keep organised ready for revision.</p> <p>File dividers will be provided with specification points and textbook references to aid organisation.</p> <p>Following each lesson students are required to spend an equivalent proportion of time consolidating work by reading textbook topics and completing summary questions. At the end of each topic an end of topic assessments will be conducted. Termly progress tests will be conducted to evaluate cross-chapter questioning.</p>
Section 7 – Fields 21. Gravitational Fields 22. Electric Fields 23. Capacitors 24. Magnetic Fields 25. Electromagnetic Induction		
Section 8 – Nuclear 26. Radioactivity 27. Nuclear Energy		
Option Sections: A – Astrophysics B – Medical Physics C – Engineering D – Turning Points in Physics E – Electronics		
Required Practical's 7. Simple Harmonic Motion 8. Boyle's Law & Charles's Law 9. Capacitors 10. Flux density 11. Flux linkage 12. Inverse-square law		