



PLUME ACADEMY - LEARNING OVERVIEW

Year	11
Course	GCSE Physics - Individual
Specification Number/Exam Board	8463 - AQA
End of course assessment and weightings	Paper 1 (50% of Examinations): Topic 1 – Energy Topic 2 – Electricity Topic 3 – Particle Model Topic 4 – Atomic Structure Paper 2 (50% of Examinations): Topic 5 – Forces Topic 6 – Waves Topic 7 – Magnetism and Electromagnetism Topic 8 – Space Physics

Prior Learning

The subject builds on your child's key stage 3 experience in Physics by building upon the 'bridging year' in Year 9 where the basic foundations of GCSE are covered. Students will be revisiting and building during this year upon their prior learning of Forces (introduced in Year 7 and developed in Year 9), Space Physics (introduced in Year 8) and Magnetism (introduced in Year 7).

Curriculum Intent – What are the curriculum aims?

AQA GCSE Physics specification aims to encourage learners to:

- develop essential knowledge and understanding of different areas of the subject and how they relate to each other.
- develop and demonstrate a deep appreciation of the skills, knowledge and understanding of scientific methods.
- develop competence and confidence in a variety of practical, mathematical and problem-solving skills.
- develop their interest in and enthusiasm for the subject, including developing an interest in further study and careers associated with the subject.
- understand how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society.

Curriculum Implementation – What will my child be learning?

Term 1	Half Term 1	Forces Part A
	Half Term 2	Forces Part B
Term 2	Half Term 3	Space Physics
	Half Term 4	Magnetism
Term 3	Half Term 5	Examination Preparation



Curriculum Impact – How will progress be assessed as I learn?

Whilst the course is being taught the following assessment will take place:

- Marking of class work in books including exam questions.
- Standard Homeworks about content covered.
- Progress Review Assessments
- Mock Examinations

At the end of the course there will be two 100 marks (105mins) exam papers which will include the following:

Paper 1 – Energy, Electricity, Particle Model, Atomic Physics
 Paper 2 – Forces, Waves, Magnetism, Space Physics

Super-Curricular Opportunities – Support and Extending Learning

Useful study resources	If a student is really passionate about this subject...	As a parent/carer, I can assist my child in this subject by:
<p>AQA Revision and Practice Question Revision Guide – This should be for Physics as an individual subject (Not combined Science)</p> <p>Physics and Maths Tutor Website - Contains a series of past paper exam questions which are split into sections based on topic</p> <p>Youtube channels such as “Physics Online” - Short Revision videos broken down into topics https://www.youtube.com/playlist?list=PLlDtVvefFYt85U1l0jXTrMxDkqILrg18C</p>	<p>New Scientist Magazine/Podcast - current articles about science and technology, with many pointers to other science sites.</p> <p>Youtube/Podcasts - There are a variety of different podcasts online related to the various areas of the subject</p>	<p>When they are revising – encourage the doing and marking of exam questions as this is the best form revision</p> <p>Talk to your child about the subject – encouraging them to</p>



	<p>such as “Our Ludicrous Future” and</p> <p>Research the A Level Specification for Physics as well as University/College course and careers in the subject</p> <p>Visit to the Science Museum</p>	<p>discuss what they have learnt and what interested them</p> <p>Give them opportunities to explore any areas of the subject that they show particular interest in</p>
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