

PLUME ACADEMY - LEARNING OVERVIEW

Course Specification Number/Exam Board End of course assessment and weihtings	Combined Science Trilogy	
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End of course assessment and weihtings	(8464)	
	 (8464) Total of 6 exams, two in Biology, two in Chemistry and two in Physics Each paper is 1 hour 15 minutes Foundation and Higher Tier 70 marks WHAT IS ON PAPERS 1 AND 2? Paper 1: (Higher and Foundation) BIOLOGY: Cell Biology Organisation Infection and Response Bioenergetics CHEMISTRY: Atomic structure and the periodic table Bonding, structure, and the properties of matter Quantitative chemistry 	
	matter	
	 <u>Paper 2</u>: (Higher and Foundation) BIOLOGY: Homeostasis and response Inheritance, variation and evolution Ecology CHEMISTRY: The rate and extent of chemical change Organic chemistry Chemical analysis Chemistry of the atmosphere 	



• Forces

- Waves
- Magnetism and Electromagnetism

Prior Learning

We teach content from the basics to give a consolidated base for all students to progress forward into their Key Stage 4 topics and concepts spiralling back and building on previous taught work. Topics considered to be more challenging are delivered in year 11.

Curriculum Intent – What are the curriculum aims?

Develop scientific knowledge and conceptual understanding through all three sciences
Develop understanding of the nature, processes and methods of science through different types of scientific enquiries that help them to answer scientific questions about the world around them
Develop and learn to apply observational, practical, modelling, enquiry and problem-solving

skills, both in the laboratory, in the field and in other learning environments

• Develop their ability to evaluate claims based on all three sciences through critical analysis of the methodology, evidence and conclusions, both qualitatively and quantitatively.

Curriculum Implementation – What will my child be learning?

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Term 1	Half Term 1	Biology: Cell transport and Plant processes
		Topic 1: Atomic Structure review
		Physics: Forces Part B
	Half Term 2	Biology: Respiration and inheritance
		Chemistry: Energy changes
		Physics: Magnetism and Electromagnetism Part A
Term 2 Half Term 3 Half Term 4		Biology: Classification
		Chemistry: Rate and extent of chemical change
		Physics: Magnetism and Electromagnetism Part B
		Biology: Revision/Required practicals
		Chemistry: Chemical analysis
		Physics: Revision/Required practicals
Term 3	Half Term 5	Exam Revision and Exams start
	Half Term 6	

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

Mock Exams in half term 2 and half term 4 Key Knowledge Organiser Assessments Standard Homework Tasks-Past exam paper questions Regular exercise book assessment and feedback



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:
 GCSE Bitesize Seneca Learning Oak National Academy Youtube-sites such as Fuse School, Cognit, Free GCSE Science Revision guides for AQA Combined Sciece Trilogy. CGP are the publishers we would recommend. 	 Watch TV documentaries (e.g. BBC Iplayer) Listen to BBC Sounds podcasts on Science related issues 	Encourage students to revise work on a weekly or fortnightly basis using their books and/or Youtube videos to check their understanding. From the January before the final exams, encourage students to draw up a revision timetable to aid their preparation.