



PLUME ACADEMY - LEARNING OVERVIEW

Year	9
Subject	Science

Prior Learning

The Year 9 curriculum builds on prior learning by reviewing and linking to Year 7 and Year 8 topics. Year 7 topics include Cells & Organs, Particles and the Periodic Table. Year 8 topics include Rocks, Digestion and Breathing and Energy.

Curriculum Intent – What are the curriculum aims?

Students will continue to develop and build on the investigative skills they learnt and developed in years 7 and 8. Students need to be able to apply the substantive knowledge and understanding to the practical aspects of the course.

Year 9 is designed as a 'bridging year', where topics from Year 7 and 8 are built upon and the foundations of GCSE are laid in preparation for key stage 4 in Year 10. The challenge of the course will be built up to GCSE Foundation level, with differentiation by teachers allowing progression beyond this where appropriate.

As well as being able to recall the content taught, students need to develop resilience and understanding that science is a way of thinking much more than it is a body of knowledge.

Curriculum Implementation – What my child will be learning?

Term 1	Half Term 1	Biology – Cell Structure and Organisation. Chemistry – Atomic Structure and the Periodic Table.
	Half Term 2	Chemistry – Atomic Structure and the Periodic Table. Physics – Forces.
Term 2	Half Term 3	Biology – Non-communicable Diseases. Chemistry – Chemistry of the Atmosphere and Organic Chemistry.
	Half Term 4	Chemistry – Chemistry of the Atmosphere and Organic Chemistry. Physics – Particle Model of Matter.
Term 3	Half Term 5	Biology – Biodiversity. Chemistry – Chemical Changes.
	Half Term 6	Chemistry – Chemical Changes. Physics – Energy and Energy Resources



Curriculum Impact – How will progress be assessed?

Standard homework booklets (exam style questions on the topic)
Key Knowledge Organiser assessments (online quiz)
Examinations (at least two in the year)

Super-Curricular Opportunities – Extending Learning

Useful study resources:	If a student is really passionate about this subject, they could:	As a parent/carer, I can assist my child in this subject by:
<ul style="list-style-type: none">• BBC Bitesize• Free Science Lessons YouTube videos.	<ul style="list-style-type: none">• Visit the Royal Society of Chemistry – STEM website resources to view online practical demonstrations.• Read the science pages in daily newspapers and magazines.• Use online learning platforms such as: SENECA Learning, BBC Bitesize and The Oak Academy	<ul style="list-style-type: none">• Encouraging your child to think about the world around them in a scientific way.• Visit Natural History Museum• Visit the Science Museum• Helping the students to make links between what they are learning in science and what they are doing at home.• Watch and discuss science documentaries.