

Year 8 Overview

By the end of Year 8, students will deepen their understanding of scientific concepts across biology, chemistry, and physics. They will build on practical skills, analytical thinking, and begin to explore more complex systems and processes in the natural world.

Students will be encouraged to make connections between topics, apply their knowledge to unfamiliar contexts, and develop confidence in planning and conducting investigations. This year strengthens their ability to evaluate evidence and communicate scientific ideas clearly

Half Term	Curriculum Plan
1	The pH scale, The Digestive system, Our Atmosphere
2	Principles of Energy, Heating and cooling,
3	Cellular respiration, Energy in the home, Plant cells
4	Electrical circuits, Mechanical waves, Forces and motion
5	Skills and full science investigations, Photosynthesis,
6	The Periodic table, Changing forces, Skills and full science investigations,

Homework:

All homework is set on Sparx Science on a Monday to be submitted by a Sunday evening. Focussing on all learning up to this point,

Useful links:

[Sparx Science Login](#)
[KS3 Science - BBC Bitesize](#)
[OAK National Academy - Science](#)

Assessments:

At the end of each topic, students complete a post-diagnostic assessment in class. These short assessments help identify how well students have understood the key concepts and allow teachers to address any gaps.

There are two main formal assessment points during the year:

AP1 w/c 19th January – formal assessment covering all content taught up to that point

AP2 w/c 22nd June - formal assessment reviewing all topics covered throughout the year.

These formal assessments typically last 45–60 minutes

In addition to written assessments, students also complete practical investigations and skills-based tasks to support their development in scientific enquiry.