

Year 9 Science

What will be studied?

Topic(s)

Students are following the AQA KS3 Science Syllabus

Biology: variation and evolution – *Students will be retaught key concepts from Year 7 on variation and will then link this to evolution. They will learn about evolution by natural selection and build upon their knowledge of inheritance.*

- Chemistry: *The Earth* – *Students will learn about the structure of the Earth, including how the Earth we know has formed over time. They will learn about how all the materials we have come from the Earth and why we need to protect our vital resources. They will learn about the importance of recycling. They will build upon their knowledge of combustion to look at the carbon cycle.*
- Physics: Forces and Electricity – *Students will be retaught key concepts from Year 7 and 8. Students are taught a bridging unit of forces and electricity.*
- Biology enrichment – *Students will learn about the human body as a whole piecing together the organ systems and processes they learnt about in Year 7 and 8. Students will learn about a range of medical careers throughout this topic. They will also learn about the immune system and the circulatory system for the first time.*

How do you assess the learning?

Students are assessed by the following methods:

- Teacher created assessment for learning opportunities
- Level assessed tasks which allow students to write at length
- Multiple choice assessments
- Examination questions
- Online assessments
- Spelling tests
- In class AfL as appropriate such as: use of mini whiteboards, traffic light cards, exit cards etc.

Teachers arrange opportunities in lessons for students to present work and do individual and group projects. Practical work is completed in lessons and assessed by teachers.

End of Year Examination

How will I be assessed at the end of the year?

Students are given a one hour final assessment covering topics from the whole of Year 9 and the corresponding prior learning from Year 7 and Year 8 – students will not be expected to revise their work from Year 7 and Year 8, it is reinforced through normal teaching. This also covers the skills that students have learnt, students will be assessed on their ability to apply knowledge they have gained in one topic to another. For example,

they may have done some work on graph drawing in physics – in their exam they may be asked to draw a graph for chemistry.

How can I help my child?

Guidance and advice from science on how to help.

- Kerboodle.com – *all students have a log in for a free version of the textbook used in lessons. This also includes videos, support and extension activities.*
 - BBC Bitesize – *KS3 Science. Students can find animations, explanations and questions on this site – organised as Biology, Chemistry and Physics.*
 - Collins Science KS3 Revision - *Collins provides KS3 revision books based on the AQA KS3 science syllabus.*
 - Senecalearning.com - *Students are encouraged to revise using Seneca. There is a Key Stage Three Science course available for free.*
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