

Curriculum Overview

The study of science fires pupils' curiosity about phenomena in the world around them and offers opportunities to find explanations. Experimentation and modelling are used to develop and evaluate explanations, encouraging critical and creative thought. Pupils learn how knowledge and understanding in science are rooted in evidence. They discover how scientific ideas contribute to technological change – affecting industry, business and medicine and improving quality of life. They trace the development of science worldwide and recognise its cultural significance. They learn to question and discuss issues that may affect their own lives, the directions of societies and the future of the world.

Autumn	Spring	Summer
<ul style="list-style-type: none">• Acids reactions• Thermal decomposition• Particle theory• Materials from the Earth	<ul style="list-style-type: none">• Heat transfer• The solar system and beyond• Electricity• Introduction to forces	<ul style="list-style-type: none">• Cell structure• Reproduction• Inheritance and variation• Ecology and classification

Homework & Assessments Overview

- End of unit tests at the end of each unit.
- 6 extended homework tasks (1 every half term)

Useful Resources

- The BBC KS3 Bitesize website is useful
- School text book.
- KS3 revision guide which will be given to all students at the start of Y7.

Practical tips / activities for parents to support learning at home

- Watching Science based programmes on television can be useful. Radio 4 also has Science based programmes.
- Discussion of Science in the news.
- Involvement in hobbies that use scientific knowledge
- Using IT creatively to acquire and develop skills, reading books regularly to develop literacy.
- Outdoor visits: there are a large number of free museums, nature reserves and parks, including:
 - ◊ The Natural History Museum
 - ◊ The Science Museum
 - ◊ The Royal Museums Greenwich
 - ◊ The Horniman Museum
 - ◊ The Hunterian Museum
 - ◊ The Wellcome Collection