

## Curriculum overview:

The study of science fires pupils' curiosity about phenomena in the world around them and offers opportunities to find explanations. 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.

With this in mind year 8 students will be covering a range of exciting topics that will give them a solid foundation for their GCSE studies in years 10 and 11.

**Autumn Term:** Physics - Energy, forces, motion, pressure, waves, sound and light.

**Spring Term:** Chemistry – Elements, compounds, mixtures, periodic table, structure of the Earth, useful materials and separation techniques.

**Summer Term:** Biology – circulatory, respiratory, digestive and skeletal systems. Health, diet and biomechanics.

## Homework & assessments overview:

Students will have unit tests in the last two weeks of every half term – on or around 20<sup>th</sup> October, 15<sup>th</sup> December, 9<sup>th</sup> February and 16<sup>th</sup> March. They will have an end of year exam covering everything that they have learned in late May/ early June.

Students will be set homework tasks from revision books that the school has provided. There is a front sheet for parents to sign and guidelines for students on how to complete their homework.

## Useful websites:

[www.bbc.co.uk/education](http://www.bbc.co.uk/education) (BBC Bitesize - follow links to KS3 chemistry, biology & physics)

[www.docbrown.info/](http://www.docbrown.info/) (some great quizzes for KS3 chemistry, biology & physics)

<http://lgfl.skool.co.uk/keystage3.aspx?id=80>

## Practical tips / activities for parents to support learning at home:

- The front page of the Y8 revision book gives students suggestions of what to do if they are stuck on their homework.
- Watching science based programmes on television.
- Discussion of science in the news.
- Outdoor visits: there are a large number of **free museums**, nature reserves and parks in London including:
  - The Natural History Museum
  - The Science Museum
  - The Royal Museums Greenwich
  - The Horniman Museum