

Science Year 9

Curriculum Manager: Mr I Hughes

Teaching Staff: Mr Carey, Mr Damant, Mr Fox, Mr Hughes, Mrs Lay, Mr Maguire, Mr A Mee, Miss J Mercer, Miss C Quinn, Mr M Reeve and Mr D Walker

Curriculum Overview:

In Year 9 pupils begin to study the Combined Science (9-1) GCSE course. The course provides a programme of study across a number of topics that fulfil the requirements of the National Curriculum, and includes focus on Core Practical content, which is a key element of the new 9-1 Science GCSE Science. This ensures that pupils will steadily grow in confidence when using mathematical skills, thinking scientifically and communicating their ideas clearly and logically.

Topics Studied - Term 1

- Key Concepts in Biology
- Motion
- Atomic Structure and the Periodic Table
- Forces and Motion
- Cells and Control

Topics Studied - Term 2

- Ionic Bonding & Covalent Bonding
- Conservation of Energy
- Genetics
- Types of Substance

Topics Studied - Term 3

- Natural Selection and Genetic Modification
- Waves
- Calculations Involving Masses
- Light and the Electromagnetic Spectrum

Assessments:

Pupils are assessed regularly using quick assessment tasks and low stakes quizzing which inform students of the progress they have made.

Pupils are assessed at the end of each topic using GCSE exam-style questions. Standard and higher tier tests are available in each topic to provide assessment from grade 1 to 9 (the tier of test that pupils sit will depend on their Science set).

Revision lessons and materials are embedded into teaching time, and this can be supported by the purchase of revision guides and workbooks.

Cumulative assessments will be carried out at the end of the autumn and spring terms to assess all of the pupils' knowledge on Science taught during the year. Pupils will also take an End of Year Assessment, which will include content taught throughout the entire year. It is therefore vital that pupils constantly revise previous content to retain scientific knowledge.

Homework:

Teachers set regular ActiveLearn online homework, and this may be augmented by other sources of homework e.g. Internet research, revision tasks for assessments or exams, learning Physics formulas from the planner. All homework is communicated to pupils and parents/carers via 'Show My Homework'.

Other Useful Information:

The Science Faculty shares a range of resources via Google Classroom (*Year 9, 10 and Year 11 start your Science revision here!* code: vwx8u), allowing pupils to test their knowledge and revise GCSE topics.

GCSE Science revision guides and workbooks are available to purchase from the Science Faculty (£8.50 for Combined Science and £15 for Triple Science).

The BBC Bitesize website is highly recommended for helping pupils to revise Science GCSE topics.