

# Science Year 9

## Curriculum Manager:

Mr I Hughes

## Teaching Staff:

Mr T Carey, Mr G Damant, Mr M Fox, Mr I Hughes, Mr S Hurst, Mrs K Lay, Mr I Maguire, Mr A Mee, Miss J Mercer, Miss C Quinn, Mr M Reeve, 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 students 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

### Topics Studied - Term 2

- Cells and Control
- Ionic Bonding, Covalent Bonding and Types of Substance
- Conservation of Energy
- Genetics

### 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, learning Physics formulas from the planner.

## Other Useful Information:

The School's virtual learning site, Moodle, has a range of Science resources shared via Google Classroom, allowing pupils to test their knowledge and revise subjects (code: o1lwpt).

GCSE Science revision guides are available to purchase from the Science Faculty (£8.50 for the Combined Science revision guide and workbook).

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