

Science

Head of Science - Mr I Hughes

Topics of Study This Year:

Biology: Food and Nutrition, Plants and Their Reproduction, Unicellular Organisms, Breathing and Respiration.

Chemistry: The Periodic Table, Combustion, Metals and Their Uses, Rocks.

Physics: Earth and Space, Energy Transfers, Fluids, Light.

Throughout each topic pupils will also take lessons which focus on key skills to assist the transition to Key Stage 4. These will include skills in subject specific literacy and numeracy, data analysis and practical investigation.

Term 1

Combustion, Energy Transfers, Food and Nutrition, Light and Breathing and

Term 2

Metals, Rocks, Unicellular organisms, Fluids

Term 3

The Periodic Table, Plants and their reproduction,, Earth and Space.

Assessments:

Pupils are assessed each lesson using quick assessment tasks which inform progress for students and for staff.

Tests are carried out at the end of each unit in class and results are used to monitor progress of the pupils throughout the year. Standard and Higher tests are available in each topic to provide assessment from B3 to 4+ the tier of test will depend on target level and performance in class). Revision lessons and materials are embedded into teaching time. Cumulative tests will be carried out at three intervals in the year to assess all of the pupils knowledge on science taught so far that year, therefore it is vital that pupils constantly revise previous content to retain scientific knowledge.

Pupils will also take Year 8 Core Assessment exams as written assessments.. Revision lessons and materials will be provided to help pupils prepare for the exams.

Key Dates:

Pupils will undertake an End of Unit test for each topic they study - this equates to 12 tests throughout the year. The dates for these will be dependent on the group and are undertaken as written examinations during lesson time.. The three cumulative tests will occur on the WC 14th Nov, 29th Feb, 16th May.

Core Assessments exams (1 Biology, 1 Chemistry and 1 Physics) - May

Homework:

Every lesson can be accompanied by an online homework task which is given to the pupil at weekly intervals by the class teacher. Extra homework booklets are also available which contain subject specific literacy and numeracy tasks, as well as revision materials and progress trackers to help pupils prepare for end of unit tests.

Teachers set homework from Active Teach online on a regular basis (usually 1 homework per week), but may set homework from other sources e.g research from the internet, writing up experiments carried out in class into their exercise books, or revision tasks for tests and exams.

Other Useful Information:

Science Revision Guides will be available to purchase from Parent Pay.

The timetable for revision classes is displayed in every Science room.

The BBC Bitesize website is also highly recommended for pupils to revise science topics.

There are many apps available that can aid your child if 'KS3 Science' apps is searched for.