

Subject area – Science Year 11

| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|------------|--|--|--|--|--|--|
| Topics | Rates, Inheritance | Organic chem Paper 1 revision prior to Mocks | Using resources (Space – triple only) | Review and reflection of units in preparation for final GCSEs. Paper 2 mocks | Science GCSEs Paper 1 Biology Paper 1 Chemistry Paper 1 Physics | Science GCSEs Paper 2 Biology Paper 2 Chemistry Paper 2 Physics |
| Assessment | End of unit tests for Rates, Inheritance. | End of unit tests for Organic chem. Paper 1 mock exams for biology, chemistry and physics. | End of unit tests for using resources and Space. | GCSE exam questions used throughout all lessons. Paper 2 mocks | GCSE papers | GCSE papers |
| Homework | Exam questions on each topic. Use of Focus website. Videos to watch. | Exam questions on each topic. Use of Focus website. Videos to watch. | Exam questions on each topic. Use of Focus website. Videos to watch. | Exam questions on each topic. Use of Focus website. Videos to watch. | Exam questions on each topic. Use of Focus website. Videos to watch. | Exam questions on each topic. Use of Focus website. Videos to watch. |
| Arts Mark | Role play of behaviour of particles to explain rates of reactions. | | Cartoon strip to show life cycle of a star. | | | |

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| Intervention following Covid- 19 | Teachers to recap the practical skills potentially missed during virtual teaching. Starters with targeted questions to reduce gaps in knowledge. Paper 1 units revisited prior to paper 1 mocks. Paper 2 units revisited prior to paper 2 mocks. Final recap prior to real exams. |
| Building on prior learning | Knowledge gained from KS3 are the foundations of the KS4 curriculum; we build upon this knowledge, revisit and expand in key concepts. Pupils start preparing for GCSE Science qualifications in year 11. |
| Enrichment within the Curriculum | We have ensured that practical lessons are at the centre of our curriculum. Making real life links between science in lessons and the outside world. |
| Extracurricular opportunities | We have scientist of the fortnight competition for all year groups. We will be running science trips throughout the year – details to be confirmed. National science week activities take place in lessons and at lunchtime. |
| Positive impacting on personal development (SMSC) | Spiritual understanding – science is the study of nature and the curriculum aims to being about awe and wonder of the natural world. Social development – working together in groups to investigate science practically and understand the effects of science on society. |
| Preparing for the next stage of education | These courses prepare students to be able to follow careers in medicine, engineering, health care, sports science, computer science and the world of finance to name but a few pathways available to scientists. |
| Ways to support your child's learning | Praise for effort rather than being 'clever' shows them that by working hard they can always improve |
| Visits and trips Websites / books /papers / magazines TV/Films Blogs/ podcasts | <ul style="list-style-type: none"> • Watch Science documentaries on TV – such as those by David Attenborough and Brian Cox. • Visit Science museums – Thinktank in Birmingham, Lapworth Museum at Birmingham University (free entry all year round) and Space centre in Leicester. • Go to the library to take out some popular science books. • Try googling and doing some 'simple experiments at home' – lots of videos of experiments to watch on YouTube. • Watch YouTube channels such as mygcsescience, freesciencelessons, minutephysics, crashcourse in biology / chemistry / physics. • Look at the GCSE specifications on the AQA website. We follow AQA courses. |