

Subject area - Science – Year 10

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Homeostasis, Electricity. Recap - waves/bonding	Quantative chem, Chemical change. Recap - organisation/ecology	Infection and response, Atomic structure and radiation. Recap - bioenergetics	Forces and prep for year 10 assessment.	Energy changes, Chemical analysis.	Magnets, Using resources. Revisit units identified from yr 10 assessment
Assessment	End of unit tests for Homeostasis and Electricity.	End of unit tests for Quantative chemistry and Chemical change.	End of unit tests for Infection and response and Atomic structure and radiation.	End of unit test for forces. Year 10 assessment on year 9 and 10 units.	End of unit tests for Energy changes and Chemical analysis.	End of unit tests for Magnets and Using resources.
Homework	Exam questions on each unit. Use of Focus website.	Exam questions on each unit. Use of Focus website.	Exam questions on each unit. Use of Focus website.	Exam questions on each unit. Use of Focus website.	Exam questions on each unit. Use of Focus website.	Exam questions on each unit. Use of Focus website.
Arts Mark	Role play of electricity and circuits.		Model microbes. Animate the role of white blood cells.			

Intervention following Covid- 19	Recap over previously completed units during Covid-19 have been planned as part of the year 10 teaching timeline to allow recap over the key concepts from these topics. Starters with targeted questions to reduce gaps in knowledge.
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 10.
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. • Watch YouTube channels such as mygcscescience, freesciencellessons, minutephysics, crashcourse in biology / chemistry / physics. • Look at the GCSE specifications on the AQA website. We follow AQA courses.