

# SCIENCE CURRICULUM MAP

BASSINGBOURN VILLAGE COLLEGE  
AUTUMN 2020

CURRICULUM DELIVERY	<p>The sequencing of learning is designed to develop scientific thinking and allow for links to be made between topics. Practical work is an essential part of the delivery of Science and students are taught in specialist laboratories to enable this aspect of the curriculum. Students are encouraged to ask questions to deepen their understanding of topics and articulate their thinking across a range of themes. Science links numeracy, literacy and scientific thinking and students develop their skills in these areas with the combination of practical and theoretical work.</p> <p>Concepts are revisited and interleaved to facilitate students' memorization of key information and fluency with the skills learnt. Retrieval practice is a standard feature of all lessons to promote recall.</p>		
CURRICULUM AIMS	<p>In Years 7 and 8, Science is taught following the AQA Year 7 science course. Students develop their knowledge and understanding of a range of science topics through both practical and theoretical work. The course allows the students to build the foundation to their GCSE course, which starts in Year 9.</p>		
CURRICULUM CONTENT	AUTUMN TERM	SPRING TERM	SUMMER TERM
Year 7	Cells Movement Universe Particle Separation Lab safety Scientific drawing Tables	Sound Earth Forces Reproduction Electricity Graphs	Acid Metals Interdependence Plant reproduction Energy Practical skills
Year 8	Climate Photosynthesis Respiration Electromagnets Graphing	Forces Inheritance# Periodic table Key words	Digestion Reaction Light Analysis of data conclusion
Year 9	<u>Synergy Science</u> Building blocks Periodic table Chemical quantities	<u>Synergy Science</u> Systems in the human body Forces Structure and bonding	<u>Synergy Science</u> Plant and photosynthesis Magnetism
	<u>Triple Science</u> Cells Energy Periodic table organization	<u>Triple Science</u> Electricity Infection and response Particle model	<u>Triple Science</u> Quantitative chemistry Bioenergetics Atomic structure Chemical changes

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Year 10	<b>Synergy Science</b> Interaction with environment Explaining change	<b>Synergy Science</b> Explaining change Interaction with environment Building blocks for understanding	<b>Synergy Science</b> Transport over large distances
	<b>Triple Science</b> Quantitative Chemistry Infection and response Forces Bioenergetics	<b>Triple Science</b> Chemical changes Homeostasis Energy changes Waves	<b>Triple Science</b> Rates of reaction Organic chemistry Ecology
Year 11	<b>Synergy Science</b> Building blocks Interaction over small distances	<b>Synergy Science</b> Guiding spaceships to earth Building blocks for understanding Revision Blocks	<b>Synergy Science</b> Revision
	<b>Triple Science</b> Ecology Using resources Space Bioenergetics Magnetism	<b>Triple Science</b> Weekly blocks	<b>Triple Science</b> Revision of all units

ENRICHMENT OPPORTUNITIES	Year 7	Year 8	Year 9	Year 10	Year 11
	Poetry comp Science club (7/8) when in lab	Poetry comp Science club (7/8) when in lab	Poetry comp STEM club when in labs	Poetry comp Drop in session	Poetry comp Drop in session

For more information please contact Head of Department Mrs K Murfet on [kmurfet@bassingbournvc.org](mailto:kmurfet@bassingbournvc.org)