



Maths, English and Science at Bramcote College



Work hard • Be well • Do well



Meet our Heads of English, Maths and Science

Emma Lee: Head of English

- English teacher at Bramcote College for 21 years
- Head of English at Bramcote College for 9 years

Dom Devlin - Head of Maths

- Maths teacher for 12 years
- Bramcote for 8 years
- Head of Maths for 6 years

Alison Pascual - Head of Science

- Science teacher for 21 years.
- Head of Science at Bramcote College for 5 years
- Staff Governor and Parent of two Bramcote College students

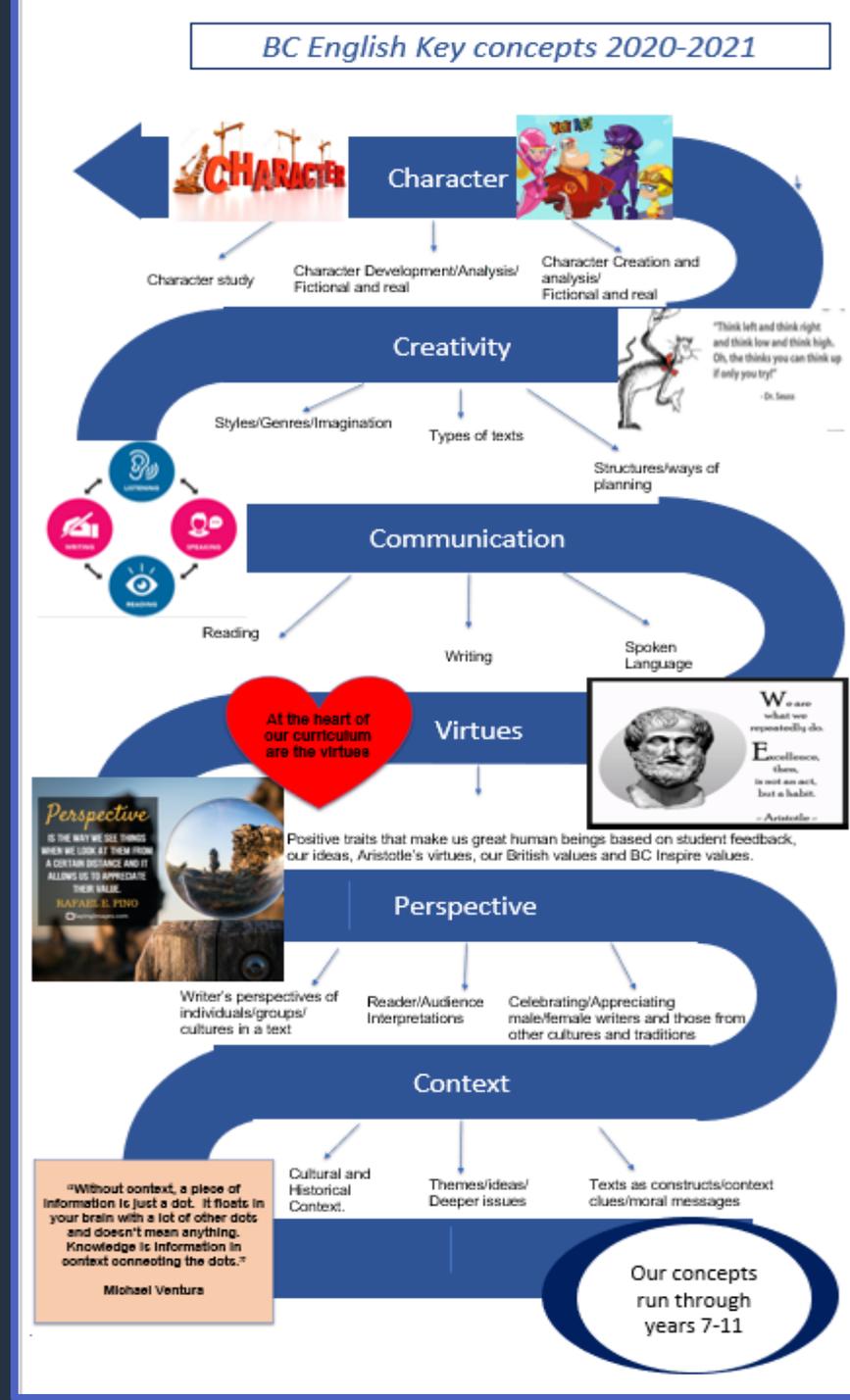


English at Bramcote College

At Bramcote College we want our students to be inspired by literature of all kinds. We instil a love of literature from a broad range of perspectives and cultures, while developing a deeper appreciation of the context, themes and messages of what they are reading. We want to develop creative and analytical writers and speaker, developing the positive traits that make them great human beings.



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English at Bramcote College

- **In Year 7** we focus on developing confidence, character, identity and as personal sense of morality.
- We use our 'English time machine' to travel to key periods in literary history to explore these virtues, covering contemporary, Elizabethan, Victorian and Gothic texts.
- We also develop an understanding of a range of genres and styles in literature including a focus on character writing concentrating on villains and outsiders.
- Year 7 also explores culture, individuality and freedom of expression in poetry.
- The Young Apprentice in Year 7 allows students to develop their persuasive writing and speaking skills to create the entrepreneurs of the future and to allow us to incorporate media and IT skills as well as developing design and problem-solving skills.



English at Bramcote College

Reading Highlights KS3

- A Christmas Carol - Dickens
- Tribes - Catherine McPhail
- Much Ado About Nothing - Shakespeare
- Lamb to the Slaughter - Roald Dahl
- Of Mice and Men - John Steinbeck
- The Hate You Give - Angie Thomas
- Macbeth - Shakespeare
- Stone Cold - Robert Swindells
- Great Expectations (extracts) - Dickens
- The Speckled Band - Sir Arthur Conan Doyle
- Gothic Fiction - extracts from classics Frankenstein and Dracula

Skills focus

- Characterisation
- The Spoken Word
- Language development
- Persuasive and passionate speaking
- Context
- Plot twists and circular structures
- A broad range of voices
- Short story writing
- Experiencing a range of cultures
- Travel writing
- National Short Story Competition



GCSE English at Bramcote College



78% of students achieved 4+ in English
and 64% achieved grades 5+

69% of students achieve 4 in both Maths
and English.

A significant number of
students go on to study A
Level English Language and
English Literature and Media
Studies at Bramcote College
6th Form and beyond

Exam Board: AQA

- **Texts include:** An Inspector Calls by J B Priestley,
The Strange Case of Dr Jekyll & Mr Hyde by Robert
Louis Stevenson, Romeo & Juliet by Shakespeare.
Power and Conflict poetry focus.

We aim to develop a love of literature genres and engage students in the beauty of creative writing. As critics, students will develop well argued responses and literary criticism. Students will also develop linguistic conventions for reading, writing and spoken language, developing a knowledge of social, historical and cultural context, as well as grammatic terminology and developing a broad vocabulary.



English enrichment at Bramcote College

- BBC Young News Reporter
- Theatre Trips - Dr Jekyll & Mr Hyde, Romeo & Juliet (Live from the Globe)
- Poetry Live
- Script Writing Competition - University of Nottingham
- BBC National Short Story Award
- Carnegie and the Brilliant Book Award



Maths at Bramcote College

Our aim for Maths at Bramcote College is

- Developing a deeper understanding and love for the subject which gives students the confidence to tackle the challenges of Maths.
- We foster an inquisitive approach to problem solving, allowing students to explore a range of mathematical ideas in a supportive and encouraging environment.
- Maths is a popular subject which many students choose to go on to study at A Level and beyond, opening doors to a broad range of careers.



Year 7

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	October Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Xmas Holidays
Place value, addition and subtraction (with algebra and applications)						AQA test 1		Place value, multiplication and division (with algebra and application)							
Xmas Holidays	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Feb Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Easter Holidays	Easter Holidays
	Geometry					AQA test 2		Factors and Multiples Fractions							
Week 1	Week 2	Week 3	Week 4	Week 5	May Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8		
BIDMAS, Substitution and Linear Graphs							Percentages		AQA test 3	Statistical Tools					



Our Learning Journey in Maths

Year Group	7	8	9
Half term 1	<ol style="list-style-type: none"> 1. Place Value, Addition, Subtraction 2. Algebraic Applications (+/-) 3. Perimeter 	<ol style="list-style-type: none"> 1. Properties of Number 2. Adding and Subtracting Fractions 3. Algebra Review 	<ol style="list-style-type: none"> 1. Integers 2. Fractions 3. Decimals
Half term 2	<ol style="list-style-type: none"> 1. Multiplication and Division 2. Algebraic Applications (\times/\div) 3. Area 	<ol style="list-style-type: none"> 1. Constructing and solving Equations 2. Changing the Subject of a Formula 3. Arithmetic and Geometric Sequences 	<ol style="list-style-type: none"> 1. Algebra Review 2. Powers and Roots 3. Further Algebra
Half term 3	<ol style="list-style-type: none"> 1. Calculator Skills 2. Angles 3. Constructions and Loci 	<ol style="list-style-type: none"> 1. Area 2. Volume 3. Circle Geometry 	<ol style="list-style-type: none"> 1. Solving Equations 2. Linear Graphs 3. Speed, Distance, Time
Half term 4	<ol style="list-style-type: none"> 1. Factors and Multiples 2. Equivalent Fractions 3. Working with Fractions 	<ol style="list-style-type: none"> 1. Pythagoras 2. Angles on Parallel lines 3. Angles in Polygons 	<ol style="list-style-type: none"> 1. Angles 2. Perimeter 3. Area
Half term 5	<ol style="list-style-type: none"> 1. Algebra: BIDMAS and Substitution 2. Plotting Co-ordinates and Graphs 3. Linear Graphs 	<ol style="list-style-type: none"> 1. Ratio 2. Proportion 3. Speed, Distance, Time 	<ol style="list-style-type: none"> 1. Percentages 2. Standard Form
Half term 6	<ol style="list-style-type: none"> 1. Convert Fractions, Decimals and Percentages 2. Working with Percentages 3. Statistical Diagrams 	<ol style="list-style-type: none"> 1. Probability 2. Statistics 3. Transformations 	<ol style="list-style-type: none"> 1. Summary Statistics 2. Statistical Diagrams 1 3. Statistical Diagrams 2



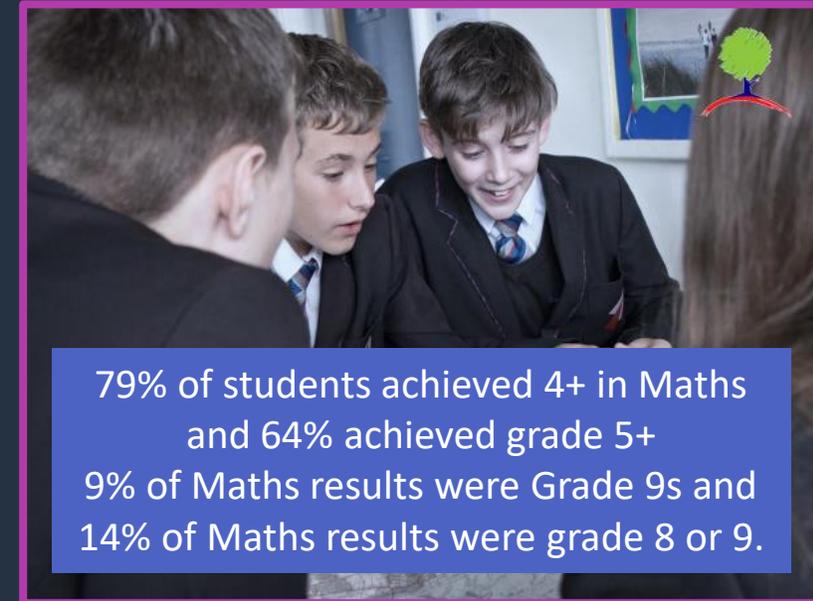
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Ofsted
Good
Provider



From KS3 to GCSE

Year Group	10F	10H	11F	11H
Half term 1	<ol style="list-style-type: none"> Sequences Equations Sim Equations 	<ol style="list-style-type: none"> Sequences Quadratic Equations Sim Equations 	<ol style="list-style-type: none"> Algebraic Manipulation Linear Graphs Percentages and Interest 	<ol style="list-style-type: none"> Algebraic Manipulation Circles Growth and Decay
Half term 2	<ol style="list-style-type: none"> Properties of Number Probability Formulae 	<ol style="list-style-type: none"> Surds Probability Formulae 	<ol style="list-style-type: none"> Interpreting Graphs Transformations Similarity and Congruence Constructions and Loci 	<ol style="list-style-type: none"> Interpreting Graphs Transformations Similarity and Congruence Constructions and Loci
Half term 3	<ol style="list-style-type: none"> Pythagoras Right Angled Trigonometry 	<ol style="list-style-type: none"> Functions Pythagoras Right Angled Trigonometry 	<ol style="list-style-type: none"> Pythagoras (Repeat) Trigonometry (Repeat) Graphs of other functions and equations 	<ol style="list-style-type: none"> Further Trigonometry Graphs of other functions and equations
Half term 4	<ol style="list-style-type: none"> 3D Objects Volume, Surface Area, Density 	<ol style="list-style-type: none"> 3D Objects Volume, Surface Area, Density 	<ol style="list-style-type: none"> Vector Geometry Revision 	<ol style="list-style-type: none"> Vector Geometry Transformations of Curves
Half term 5	<ol style="list-style-type: none"> Ratio Proportion 	<ol style="list-style-type: none"> Ratio Proportion 	Given over to Revision and Exams	Given over to Revision and Exams
Half term 6	<ol style="list-style-type: none"> Graphs Revisited Inequalities 	<ol style="list-style-type: none"> Graphs of Linear and quadratic Functions Inequalities 		



Enrichment, stretch & challenge in Maths at Bramcote College

- We have successfully entered students for the UKMT (UK Mathematical Trust) challenges at Junior, Senior and Intermediate levels starting in Year 7 and progressing into 6th Form. Students have achieved bronze, silver and gold certificates and progressed to further competitions including the Kangaroo and Mathematical Olympiad.
- We have a dedicated Maths TA who runs small groups focussing on both accelerating and supporting students with pre-teaching and preparation in specific areas.
- GCSE Further Maths for the most able mathematicians.
- High uptake in A Level Maths and Further Maths at Bramcote College 6th Form and beyond.



Science at Bramcote College

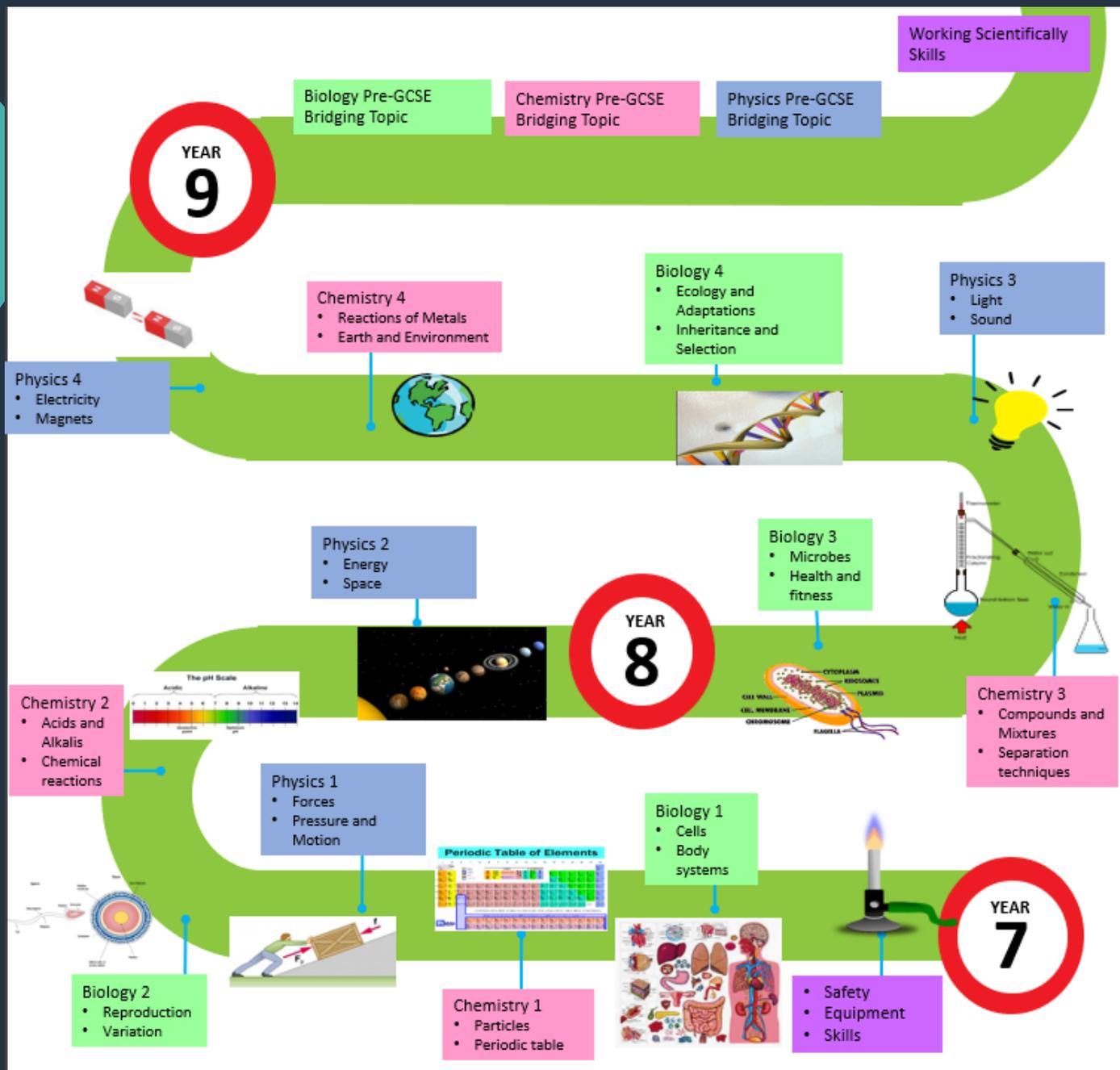
At Bramcote College we deliver an inspiring and relevant science curriculum preparing our students for a society where science and innovation is at the forefront of technological developments.

Our curriculum is delivered within a nurturing environment founded on strong relationships between our staff and students. The curriculum across all key stages and disciplines is designed to engage, enthuse and challenge through development of skills in research, investigation, analysis and evaluation.

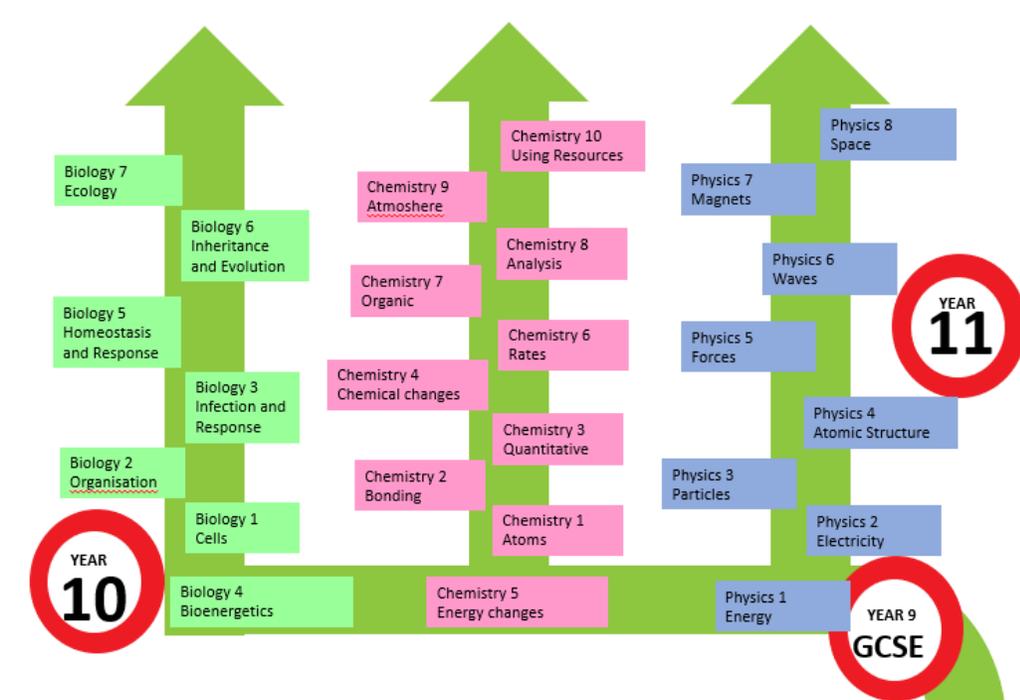
We want our students to become curious, independent, confident thinkers who will persevere until they are successful at solving the most challenging problems.

Our science curriculum allows our students many opportunities to consider their responsibilities within the wider world, enabling them to reflect on the ethical and moral issues associated with scientific progression, considering multiple viewpoints and expressing their own opinions with confidence and integrity.



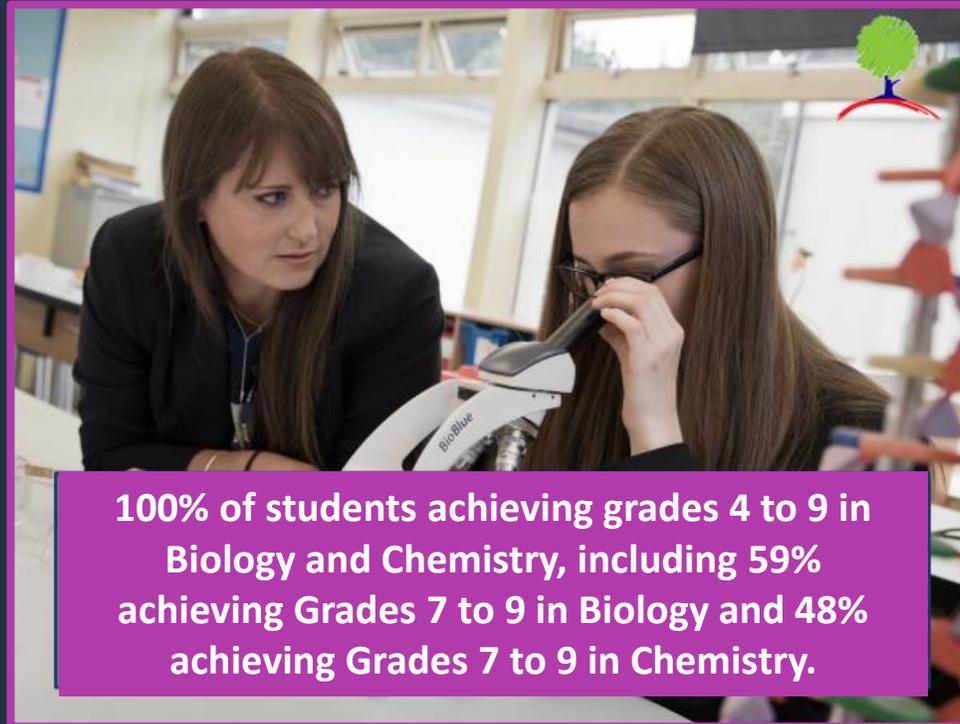


KS5 A-Levels, Apprenticeship, World of Work



Science develops skills in...

- Research
- Analysis and Evaluation
- Problem solving
- Critical thinking
- Literacy and numeracy



Y7 Science at Bramcote College

Unit	Topics	6 x Reading Assessment Peer, Self-Assessed	6 X PIN Extended Writing Teacher assessed	6 X Unit tests Teacher assessed	HSW - Key Investigation Work and Skills
Biology	Cells + Body Systems	Joints	Specialised Cells	1 per half-term Recorded on Go4schools	Microscopes Food Tests Model Gut Flower Dissection Variation in the class
	Reproduction + Variation	Frog Reproduction	Key Design		
Chemistry	Particles and Periodic Table	Dmitri Mendeleev Birthday	Particle Model	Target tackling exercises completed afterwards	Stearic Acid Cooling Curves Diffusion Group 1 Metals Indicators Neutralisation Antacid investigation. Exo/Endo Combustion
	Acids and Reactions	Endo/Exo	Acids and Alkalis		
Physics	Forces + Motion	Speed Records	Floating and Sinking		Helicopters Friction Hooke's Law Density Gas Pressure Conduction & Convection Energy in Fuels
	Energy + Space	Moons	Heating the home		



GCSE Science at Bramcote College

Exam Board: AQA

- Trilogy Science ... students are taught all three sciences and gain two Science GCSE grades at the end of the course.
- Triple Science ... designed for students who want to do A-Levels in Science and are thinking of a science-based career. Students are taught all three sciences (but with additional content compared with the Trilogy course). Students will gain a grade in Biology, Chemistry and Physics at the end of the course.
- In 2022 our Science results saw 100% of students achieving grades 4 to 9 in Biology and Chemistry, including 59% achieving Grades 7 to 9 in Biology and 48% achieving Grades 7 to 9 in Chemistry.
- A-Level Biology, Chemistry and Physics are some of the most popular subjects in our 6th form. We run two Biology A Level classes each year and one each of Physics and Chemistry.
- Our A-level Science students have gone on to University to study subjects such as The University of Nottingham, Exeter University and Liverpool University.



Enrichment in Science

- STEM activities
- Salters festival of Chemistry
- Go4Set Engineering project
- i Rail workshops
- Engineering extravaganza
- Space Centre
- Portugal Ecology Field Study Trip (A-Level)

