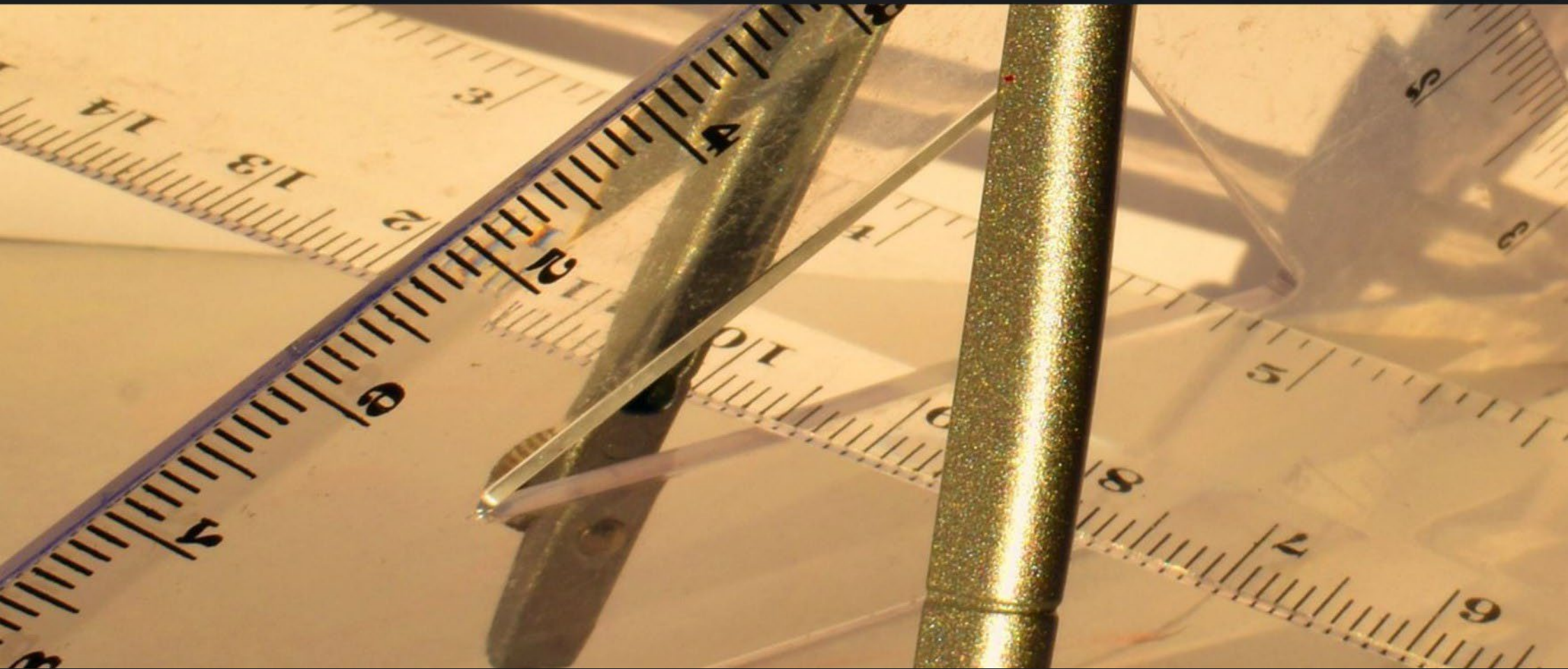


MATHS



Curriculum Aims, Delivery & Content



Bottisham Village College

Achievement through Inspiring, Caring, Enriching

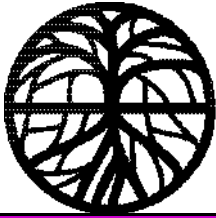
<p>Curriculum Delivery Key Stage 3</p>	<p>In year 7 students are taught in mixed ability sets and all follow the same curriculum.</p> <p>In year 8 students follow one of two curriculum paths, core or foundation. Students following the core curriculum are set and those following the foundation curriculum are in mixed ability groups</p> <p>In year 9 students follow one of three curriculum paths, higher, core or foundation. Students following higher or core are taught in sets, those following foundation are in mixed ability groups.</p>
<p>Curriculum aims Key Stage 3</p>	<p>Maths is a fascinating, elegant and precise way of communicating that every student has the right to experience and understand.</p> <p>Maths is not a series of procedures of algorithms to be learnt in isolation. Depth of understanding and making connections are as important, if not more so than procedural automaticity and delivering 'correct' answers. Students should not only know and be able to confidently and efficiently use methods of calculation but understand when they are most effectively used, why they work and how they have been derived.</p> <p>When students have developed automaticity they will apply their skills to a variety of problems.</p>
<p>Curriculum Content Year 7</p> <p>Students have 5 lessons per fortnight</p>	<p><u>All Students will study units on the Fundamentals of Arithmetic, Multiplicative Relationships, Fractions and Place Value.</u> These units cover previous content from the primary curriculum in greater depth. By the end of the year all students to have a common way of modelling and talking about the mathematics they are studying and a deep understanding of the connections between different pieces of maths.</p>



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<p>Curriculum Content Year 8</p> <p>Students have 4 lessons a fortnight in year 8</p>	<p><u>Foundation:</u></p> <ul style="list-style-type: none">• Arithmetic• Multiplicative Relationships• Place Value and the Number System• Describing Patterns• Geometry and Measure <p><u>Core:</u></p> <ul style="list-style-type: none">• Place Value and the Number System• Arithmetic• Multiplicative Relationships• Describing Patterns• Geometry and Measure	<p>Curriculum Content Year 10</p> <p>Students have 4 lessons a fortnight in year 10</p>	<p>Students take AQA GCSE Maths (8300)</p> <p><u>Foundation:</u></p> <ul style="list-style-type: none">• Multiplicative Relationships• Place Value and Calculations• Arithmetic• Statistics• Describing Patterns• Probability• Geometry <p><u>Core:</u></p> <ul style="list-style-type: none">• Probability and Statistics• Arithmetic• Multiplicative Relationships• Geometry• Describing Patterns• Geometry <p><u>Higher:</u></p> <ul style="list-style-type: none">• Probability and Stats• Quadratics• Place Value and Rounding• Geometry
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Curriculum Content Year 9

Students have 4 lessons a fortnight in year 9

Foundation:

- Place Value
- Describing Patterns
- Multiplicative Relationships
- Arithmetic
- Geometry and Measure

Core:

- Place Value
- Describing Patterns
- Multiplicative Relationships
- Arithmetic
- Geometry and Measure

Higher:

- Place Value and the Number System
- Multiplicative Relationships
- Geometry and Measure

Curriculum Content Year 11

Students have 4 lessons a fortnight in year 11

Foundation:

- Multiplicative Relationships
- Arithmetic
- Geometry
- Place Value
- Geometry
- Probability

Core:

- Multiplicative Relationships
- Arithmetic
- Place Value
- Geometry
- Describing Patterns

Higher:

- Geometry
- Multiplicative Relationships
- Introduction to Calculus
- Growth and Decay + Iteration
- Functions
- Transformations
- Arithmetic and Proof