

MATHS - KS3 CURRICULUM RATIONALE

<p>What do we aim to achieve through the KS3 Curriculum</p>	<p><i>All students to be engaged, enthralled and inspired in mathematics. Students will cover new topics e.g. Pythagoras and algebraic topics as well as extending their knowledge of topics covered at KS2. Students will learn how to use mathematics in unfamiliar circumstances including problem solving and reasoning to ensure mastery and fluency across the curriculum.</i></p>
<p>What are learners entitled to</p>	<p><i>Outstanding teaching in all aspects of the KS3 mathematics curriculum. The new schemes of work are designed to ensure consistency in teaching with full support for weaker students and plentiful extension work for the more able. The White Rose SoW is used in the majority of local primary schools so many students are familiar with the style of teaching, assessments and tasks taught.</i></p>
<p>What should every child experience, what is non-negotiable and why?</p>	<p><i>Well differentiated and stimulating activities to engage students of all mathematical ability.</i></p>
<p>What building blocks are we trying to establish to ensure success in KS4, what is the 5 year whole?</p>	<p><i>A sound understanding of a range of mathematical concepts enabling students to access KS4 and KS5 work. Students are shown early in year 7 how to use a calculator effectively with problem solving and reasoning skills developed throughout the year.</i></p>
<p>In preparing youngsters for their future communities, what is global in the KS3 curriculum?</p>	<p><i>The language of mathematics is a global language which builds upon prior knowledge to teach new topics and skills useful not only in mathematics but a variety of other subjects and the outside world.</i></p>

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<p>What is distinctive and local about what we do and why is it important here in Corsham?</p>	<p><i>Mixed ability teaching in year 7. The schemes of work are designed to allow for collaboration between students of all abilities whilst ensuring there is support for weaker students and challenge for the more able.</i></p>
<p>What needs are we addressing among our youngsters specifically?</p>	<p><i>Confidence in number and use of numeracy. Problem solving and reasoning skills which are transferable to numerous areas of education.</i></p>
<p>How will we inspire/light fires and challenge in KS3?</p>	<p><i>The first topics covered introduce students to many functions on a calculator they have not used before working with indices and finally Pythagoras - topics students do not cover in KS2 but have developed the skills to be able to access.</i></p>
<p>What do we promote in terms of knowledge/skills/behaviours/organisation/opportunities for reflection/supporting emotional needs</p>	<p><i>TRIO assessments and homework sheets. New for 2019-20 are short Block assessments.</i></p>