

MATHS CURRICULUM MAP

BASSINGBOURN VILLAGE COLLEGE
AUTUMN 2020

CURRICULUM DELIVERY	The sequencing of learning and breakdown of topics into small steps is designed to develop a deep understanding and not to overload students with too much happening all at the same time. Developing mathematical fluency, reasoning and problem solving are all designed into the curriculum, as is an emphasis on expecting students to be able to articulate their thinking. 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.		
CURRICULUM AIMS	Through our curriculum we aim to build deep understanding, confidence and competence in maths and to produce strong, secure learning and real progress. The maths skills students learn will prepare them for maths they might encounter in the real world as well as supporting the maths content of other curriculum subjects such as science. We promote a growth mindset approach, as well as demonstrating how enjoyable and satisfying mathematical problem solving can be and we develop students into becoming resilient mathematicians who relish the challenge of maths.		
CURRICULUM CONTENT	AUTUMN TERM	SPRING TERM	SUMMER TERM
Year 7	Sequences, Algebraic Notation, Equality and Equivalence, Place Value, Fraction/decimal/percentage equivalence	Problem solving with addition/subtraction/multiplication /division, Fractions and percentages of amounts, Directed number, Addition and subtraction of fractions	Constructing measuring and using geometric notation, Developing geometric reasoning, Sets and probability, Prime Numbers and proof
Year 8	Ratio and scale, Multiplicative change, Multiplying and dividing fractions, Working in the Cartesian plane, Representing data, Tables and probability	Brackets equations and inequalities, Sequences, Indices, Fractions and percentages, Index form	Angles in parallel lines and polygons, Area of trapezia and circles, Line symmetry and reflection, Data Handling, Measures of Location
Year 9	Algebraic expressions, Equations and formulae, Factors and multiples, Directed number, Standard form, Fraction/decimal/percentage equivalence, Financial maths, Properties of shapes, Probability	Angle rules, Symmetry, Transformations, Pythagoras, Calculating with fractions and decimals, *Calculating speed, density and pressure, Working with compound units, Proportion	Nets, Constructions, Similarity and Congruence, Inequalities, Simultaneous Equations, Scattergraphs

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Year 10	Percentages, algebra, probability, Pythagoras, Inequalities, Proportion, Powers and roots, Properties of shapes	Standard form, Fractions, Surds, Simultaneous equations, Measures, Trigonometry, Polygons, Venn diagrams, Proportion	Bounds, rearranging formulae, equations and their graphs, construction and loci, Congruence and similarity, Cumulative frequency, Box plots, Rate of change
Year 11	Number (various), Pythagoras and Trigonometry, Vectors, Geometry (various), Probability, Venn Diagrams, Algebra (various), Statistics, Proportion, Fractions	Equations and Formulae, Constructions and Loci, Transformations, Similar and Congruent Shapes, Area perimeter and volume, Graphs of equations, Iteration, *Measures, Functions	Targeted revision

ENRICHMENT OPPORTUNITIES	Year 7	Year 8	Year 9	Year 10	Year 11
	Junior Maths Challenge	Junior Maths Challenge	Intermediate Maths Challenge	Intermediate Maths Challenge	Intermediate Maths Challenge

Further information please contact Head of Department Mr A Taylor on ataylor@bassingbournvc.org