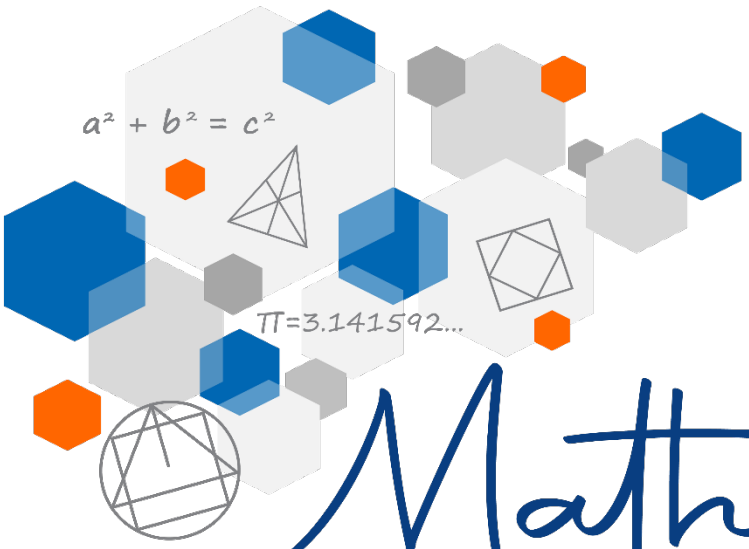
Ashby School
Empowered to Learn

Curriculum Information

Key Stage 3



Maths Faculty

"Developing confident problem solvers who understand mathematical structures of the world around us"

For yourself & for others

PART OF THE LIFE MULTI ACADEMY TRUST

Curriculum Intent

Mathematics is the key to understanding the logic of the world in which we live. At Ashby School, we believe that every student is capable of grasping these logical structures and excelling in mathematics. Taught by our expert staff, students gain fluency in mathematical methods, develop conceptual understanding, and learn to apply problem-solving strategies. Staff manage the pace of lessons to ensure it is matched to the needs of students. In our teaching, we are keen to highlight the connections between different areas of mathematics to build strong foundations for future success.

Key Stage 3 Maths

Our KS3 curriculum is sequenced to build on prior learning and enables a deep understanding of the concepts taught, supporting the delivery of high-quality teaching and learning.

As outline in the National curriculum for mathematics 'Mathematics is an interconnected subject in which students need to be able to move fluently between representations of mathematical ideas. The programme of study for Key Stage 3 is organised into apparently distinct domains, but students should build on Key Stage 2 and connections across mathematical ideas to develop fluency, mathematical reasoning, and competence in solving increasingly sophisticated problems.'

Our curriculum emphasises teaching for mastery, this rejects superficial short-term coverage in favour of developing deep, connected understanding of key ideas. This forms a secure foundation for future learning, so making more efficient use of teaching and learning time. Our curriculum is supported by formative baseline and termly assessments, which provides teachers with crucial insights on student progress to help inform their planning.

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Year 7 Term 1	Number sense and calculations	Number sense
		Adding and subtracting
		Multiplying
		Dividing
		Calculating with negative numbers
		Order of operations
	Expressions and equations	Expressions
		Substitution
		Solving equations
	Measures	Time
		Measures

Year 7 Term 2	2D Shapes	Line and shape properties
	Perimeter and area	Perimeter
		Area
	Coordinates	Coordinates and shapes
	Factors, multiples and primes	Factors and multiples
		Primes
	Fractions	Writing and comparing fractions
		Adding and subtracting fractions
	Brackets	Single brackets

Year 7 Term 3	Angles	Angles
		Finding unknown angles
	Handling data and statistical diagrams	Averages and range
		Tables and charts
		Collecting and presenting data
	Proportion	Proportion word problems
	Fractions, decimals and percentages	Multiplying and dividing fractions
		Fractions of amounts
		Fractions, decimals and percentages
	Probability	Theoretical probability

Year 8 Term 1	Percentages	Percentages of amounts
		Percentage change
	Money	Calculating with money
	Indices	Index laws
	Equations	Solving equations
	Sequences	Term-to-term rules
		Position-to-term rules
	Ratio	Ratio
		Scale diagrams

Year 8 Term 2	Rounding	Significant figures
	Coordinates	Coordinates and midpoints
	Area	Area and units
	Circles	Area and circumference
	Standard form	Standard form and ordinary numbers
	Venn diagrams	Venn diagrams
		Factors, multiples and primes
	3D shapes	Nets
	Surface area and volume	Surface area
		Volume

Year 8 Term 3	Linear graphs	Plotting graphs and finding equations
	Transformations	Transforming shapes
	Angles	Finding unknown angles
	Statistical diagrams	Drawing and interpreting statistical diagrams
	Inequalities	Linear inequalities
	Brackets	Double brackets
	Algebraic fractions	Fractions review
		Algebraic fractions
	Recurring decimals	Fractions and recurring decimals

Year 9 Term 1	Fractions and percentages	Fractions, decimals and percentages review
		Percentage change
	Probability	Theoretical and experimental probability
	Standard form	Calculations with standard form
	Inequalities	Linear inequalities
	Quadratic equations	Factorising and solving quadratic equations
	Formulae	Rearranging formulae
	Constructions	Constructing bisectors and perpendicular lines
	Circles	Circles and cylinders
Year 9 Term 2	Rounding	Error intervals
	3D shapes	Representations of 3D shapes
	Pythagoras' theorem	Pythagoras' theorem in 2D
	Ratio and proportion	Ratio
		Proportion word problems
	Linear graphs	Plotting graphs and finding equations
	Compound measures	Speed and rates
	Motion-time graphs	Distance-time graphs
Year 9 Term 3	Quadratic graphs	Plotting and interpreting quadratic graphs
	Angles and bearings	Angles
		Bearings
	Transformations	Transforming shapes
	Similarity and congruence	Similarity
		Congruence
	Handling data and statistical diagrams	Collecting and presenting data
		Scatter graphs
		Grouped data
	Vectors	Column vectors