

Mathematics Learning Journey

Using and Applying Number Geometry & Measures Statistics Life Skills maths

Skills are transferred into college, employment and life skills

Intent: Maths is a really important part of everyday life. The intention of our Maths curriculum is for pupils to: Make sense of our world; Tackle real-life problems; Communicate information; Develop skills which are essential in most other areas of the curriculum; Develop skills for life to achieve success in the workplace; and economic well-being. We want students to acquire life-long skills which will support them in their futures.

Implementation: KS3 students will study Number, Geometry and Measures, and Statistics topics (some study Algebra). Real-life and functional Maths is used and applied throughout Maths lessons, and across other areas of the curriculum and as part of the school day. In KS4, some students will have opportunities to access the OCR Maths Entry Level course. Some students study AIM Awards in Maths, which are a series of Functional Skills qualifications, providing learners with the maths and numeracy skills and abilities they need to take an active and responsible role in their communities, workplace, educational settings and in their everyday life.

Impact: CRS use CREATE trackers and Go4schools for assessment. The system enables us to identify gaps in teaching and learning, determine where intervention is needed and measure progress within and across the school. Our Go4schools data shows us that all students are on track to meet their teacher target. The targets are informed and challenging. Students develop life-long skills to support them in contexts beyond the classroom.

Distance – time graphs	Money conversion graphs	Systematic listing	Tally charts	Bar graphs	Shopping	Budgeting	Bills
Scales & graphs		Lists & outcomes		Averages & trends		Post 16 Further develop Functional Maths skills	
Coordinates		Pictograms	Scatter graphs	Mean, median, mode, range			
Solve money problems	Read scales +/-	Venn diagrams	Proportion problems	Equivalent fractions, decimals, percentages	Percentages of amounts		
Money, calendar, time		Ratio & proportionality		Fractions / decimals / percentages		Year 11	
Time conversion, 12-24hr	Timetables, two-way tables	Y10 and Y11 OCR Entry Level and AQA Accredited Courses		Equivalent fractions	Order decimals / fractions		
Reflection & symmetry	Rotations			Measure length	Perimeter & area		
Symmetry and transformations		Scales / graphs		Units & measure			
Translations		Read scales / intervals		Compass points	Measure & draw angles		
Sorting shapes by property	Calculations with +/- / x / ÷	Negative numbers	Times tables	Index notation	Order / compare numbers		
Shapes		Calculations / formulae		Place value / Estimation / Multiples		Year 10	
Classification	Inverses in calculations	Sequences	Functions	Rounding	Decimal places / significant figures		
Letters/symbols to represent unknowns	Solve problems with time	Use x and ÷ as scale factors for ratio		Classify shapes	Missing angles & lengths	Mean average	
Algebra		Measurement – perimeter/area/volume		Number – Ratio		Geometry – properties of shapes	
		Perimeter, area & volume of simple 2D/3D shapes		Compare one thing to another		Build/draw 2D/3D shapes and nets	
Calculate with percentages		Translation / reflection		+ / - fractions with different denominators		Calculations with +/- / x / ÷	
Number – decimals / percentages		Geometry – position & direction		Number – fractions		Number – place value, +/- / x / ÷	
Calculate with decimals		Coordinates		Multiply / divide fractions		+ / - numbers any size	
Intro +/- fractions with different denominators		Multiply fractions		Intro to percentages		Draw, measure and compare angles	
Measurement – perimeter/area		Geometry – properties of shapes / position & direction		Measurement – converting units / volume		Year 9	
Compare, order, simplify fractions		+/- / x / ÷ with decimals		2D representations of 3D shapes		Convert between units of time	
Perimeter and area of simple 2D shapes		Short division		Tables		Roman Numerals to 1000	
		Number – multiplication & division		Statistics		Number – place value / addition & subtraction	
10s 100s 1000s		Factors, multiples & primes		Multiply 2-digit numbers		Negative numbers	
Area by counting shapes		Fractions of amounts		Introduction to decimals		Numbers to 1 million	
Measurement – area		Number – fractions/decimals		Measurement – money/time		Geometry – properties of shapes / position & direction	
Equivalent fractions		+/- with same denominator		Convert between units of time		Classify triangles/quadrilaterals	
$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$		6, 7, 9, 25, 100 Times tables				Coordinates & translations	
Number – multiplication / division		Measurement – length / perimeter		Number – place value - Addition / subtraction		Year 7	
Factor pairs		Short multiplication		Perimeter of simple shapes		4-digit addition and subtraction	
						Roman Numerals to 100	