Curriculum Intent Maths: Key Stage 2 2025 - 2026

At Compass School, Mathematics offers pupils the tools for making sense of the world around them through developing their skills in: pattern spotting, problem solving as well as basic numeracy skills for surviving in the adult world (skills for life). This is facilitated by incorporating key vocabulary in every Maths lesson to enhance mathematical communication and by using a variety of resources, including manipulatives and technology, to help pupils visualise and understand abstract mathematical concepts. At Compass School, all pupils are assessed on entry, and the curriculum is differentiated to address any gaps in knowledge. We foster positive "can do" attitudes and we promote the fact that we can all do maths. We aim for our pupils to become fluent in the fundamentals of mathematics and they think and reason logically. All pupils are challenged and encouraged to excel in mathematics to recognise the importance of this subject in the wider world. Pupils leave Compass School equipped with the knowledge and competence to deal with mathematical problem they might face in their lives and future careers.
By the end of Key Stage 2, pupils are expected to have a foundation in numeracy skills, basic mathematical operations, problem-solving, fractions and decimals, measurements and time, and basic geometry and to use mathematical terms in a written context.

Skills and Knowledge Key Stage 2

Every half-term, we ensure that our pupils have cross-curricular (Cc) opportunities and cover Social, Moral, Spiritual, and cultural (SMSC) elements.
These are detailed below using the following codes, enabling us to track what is delivered in each subject:
Cross Curricular Links include: M (Maths), Eng (English), Sc (Science), PS (PSHE), FT (Food Tech), CR (Craft), AD (Art & Design), C (Computing), G (Geography), H (History), En (Engineering), R (Reading), Ec (Economics)
SMSC Links include: B (British Values), Sp (Spiritual aspects), M (Moral aspects), So (Social aspects), C (Cultural aspects), R (Religious aspects), Rel (Relationships), P (Prevent), E (E-Safety), I (Individual Advice & Guidance & Careers), H (Healthy Lifestyle including wellbeing).

	Key Stage 2 Topics	Key Stage 2 Skills	Key Stage 2 Knowledge
HT1	Number **SMSC - C, I, M, So** **CC - Sc, PS, FT, AD, C, G, En, H**	Recognising the place value of each digit to a million Reading and writing numbers up to 10 000 000 Comparing and ordering numbers using symbols>=< Solving number problems Rounding number to a required degree of accuracy Estimating and using estimation to check answers Adding and subtracting numbers mentally Recognising repeated addition Using formal written methods to calculate addition and subtraction problems Solving multi step problems including problems in a real-life context Using inverse operation to check answers where appropriate Recalling times-tables	Place value Addition and subtraction Estimation and Rounding
	Key Stage 2 Topics	**Key Stage 2 Skills**	**Key Stage 2 Knowledge**
HT2	Number Measurement **SMSC - C, I, M, So** **CC - Sc, FT, AD, C, G**	Counting in multiples Using arrays to multiply and sharing to solve simple division questions Use sharing and grouping to solve problems Calculate area Make shapes and compare areas	Multiplication and division Area Sharing and grouping
	Key Stage 2 Topics	**Key Stage 2 Skills**	**Key Stage 2 Knowledge**
HT3	Number Measurement Fractions **SMSC - C, I, M, So** **CC - Sc, FT, AD, C**	Comparing and ordering fractions Finding fractions on a number line Finding equivalent fractions Partition a mixed number Convert mixed numbers to improper fractions Using formal written methods to multiply and divide Measure length in different units Adding and subtracting lengths Calculating perimeter Calculating perimeter of polygons Multiply in 10 and 100 Multiply three numbers together Multiply formally Divide a three digit number by one digit Divide with remainders	Fractions Length and perimeter Multiplication and division
	Key Stage 2 Topics	**Key Stage 2 Skills**	**Key Stage 2 Knowledge**
HT4	Number Measurement Fractions	Measurements of mass Measurements of capacity Equivalence of masses and capacities Conversion of masses and capacities Finding the difference between masses and capacities	Fractions Mass Capacity

	SMSC - C, I, M, So **CC - Sc, PS, FT, AD, C, G, En, H**	Adding fractions including with mixed numbers Subtracting fractions from whole amounts and mixed numbers Using fractions of an amount	
	Key Stage 2 Topics	**Key Stage 2 Skills**	**Key Stage 2 Knowledge**
HT5	Time Decimals Money **SMSC - M, C, I** **CC - AD, G, FT, AD**	Identifying and converting between digital time in 12h and 24h formats Recognising periods of time including days, weeks and months Using analogue time to describe to the hour and half-hour Using analogue time to describe to quarter hours and five-minute intervals Identifying and converting between digital and analogue time Recalling times tables Working with tenths Working with hundredths Using halves and quarters as decimals Partition decimals Compare, order and round decimals Dividing a number by 10 and 100 Identifying and converting pounds and pence Writing money using decimals Compare and estimate with money Round with money Adding and subtracting money Finding change Problem solving with money	Digital time Analogue time Decimals Money
	Key Stage 2 Topics	**Key Stage 2 Skills**	**Key Stage 2 Knowledge**
HT6	Geometry, Shape Statistics/ Data **SMSC - C, I, M, So** **CC - Sc, PS, FT, CR, AD, H**	Identifying turns and angles Comparing and naming angles Identify and working with triangles, quadrilaterals and polygons Interpreting tables and charts such as pictograms, bar charts and line graphs Asking and answering questions about totalling and comparing data Presenting information in different ways Solving comparison problems Describe position using co-ordinates Plot co-ordinates Draw and translate 2D shapes	Angles 2D shapes Data handling Position and direction