



End of Term Expectations (End Points) for Maths

Year	Autumn Term	Spring Term	Summer Term
<p align="center"><u>5</u></p>	<ul style="list-style-type: none"> • Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit • Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. • Interpret negative numbers in context, count forwards and backwards • Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. • Solve number problems and practical problems that involve ordering and comparing numbers to 1 000 000 • Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. • Add and subtract whole numbers with more than 4 digits, including using formal written methods • Add and subtract numbers mentally with increasingly large numbers. • Use rounding to check answers to calculations • Solve addition and subtraction multi-step problems in contexts • Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. 	<ul style="list-style-type: none"> • Solve comparison, sum and difference problems using information presented in a line graph. • Complete, read and interpret information in tables, including timetables. • Compare and order fractions whose denominators are all multiples of the same number. • Identify and name equivalent fractions • Write equivalent fractions of a given fraction • Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements • Add and subtract fractions with the same denominator and denominators that are multiples of the same number. • Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. • Read and write decimal numbers as fractions e.g. $0.71 = \frac{71}{100}$, $8.09 = 8 + \frac{9}{100}$. • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. 	<ul style="list-style-type: none"> • Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. • Draw given angles, and measure them in degrees • Identify angles at a point and one whole turn (total 360°). • Identify angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°). • Identify other multiples of 90°. • Use the properties of rectangles to deduce related facts and find missing lengths and angles. • Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. • Identify, describe and represent the position of a shape following a reflection or translation • Convert between different units of metric measure (eg; kilometre and metre) • Understand and use approximate equivalences (metric and imperial) • Measure and calculate perimeter • Calculate and compare the area of rectangles and irregular shapes • Estimate volume • Solve problems involving converting between units of time.

	<ul style="list-style-type: none">• Know and use the vocabulary of prime numbers• Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method• Multiply and divide numbers mentally drawing upon known facts• Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders• Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.• Recognise and use square numbers• Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.• Recognise and use cube numbers and the notation for cubed• Solve problems involving addition, subtraction, multiplication and division	<ul style="list-style-type: none">• Round decimals with two decimal places to the nearest whole number and to one decimal place.• Read, write, order and compare numbers with up to three decimal places• Solve problems involving number up to three decimal places.• Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred'.• Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$	<ul style="list-style-type: none">• Use all four operations to solve problems involving measure• Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.
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