

	3	4	Year 5
Number & place value	<p>□□□□□<sup>a</sup> I can compare and order numbers up to 1000</p>	<p>□□□□□<sup>a</sup> I can order and compare numbers beyond 1000</p> <p>□□□□□<sup>b</sup> I can count backwards through zero (to include negative numbers)</p>	<p>□□□□□<sup>a</sup> I can read, write, order and compare numbers up to 1,000,000 and I know the value of each digit</p> <p>□□□□□<sup>b</sup> I understand negative numbers (in context); I can count forwards and backwards with positive and negative whole numbers (including through zero)</p>
Addition and subtraction	<p>□□□□□<sup>c</sup> I can add and subtract numbers with up to three digits, using written column addition and subtraction</p> <p>□□□□□<sup>d</sup> I can add and subtract numbers in my head, including: HTU+U, HTU+T and HTU+H</p>	<p>□□□□□<sup>c</sup> I can add and subtract numbers with up to 4 digits using written column addition and subtraction where appropriate</p> <p>□□□□□<sup>d1</sup> I can add and subtract two-digit numbers mentally</p> <p>□□□□□<sup>d2</sup> I can add a two-digit number to a three digit number and subtract a two-digit number from a three-digit one mentally</p>	<p>□□□□□<sup>c</sup> I can add and subtract whole numbers with more than 4 digits, including using written column methods</p> <p>□□□□□<sup>d</sup> I can add and subtract numbers mentally with larger numbers (eg 12462-2300)</p>
Multiplication and division	<p>□□□□□<sup>E1</sup> I know my 3, 4 and 8 multiplication tables and I can use these multiplication and division facts to help me do calculations</p> <p>□□□□□<sup>E2</sup> I can write down and find answers to multiplication and division sums using the multiplication tables I know (including for TUxU) in my head</p> <p>□□□□□<sup>9</sup> I can find answers to multiplication and division problems (including missing number problems and sums like 12 sweets are shared equally between 4 children); I choose the right type of sum to do and can explain why it is the right type of sum</p> <p>□□□□□<sup>G1</sup> I am beginning to use written methods for multiplication and division sums</p>	<p>□□□□□<sup>e</sup> When I do multiplication sums in my head, I use factor pairs and change the order of the numbers to make the sum easier</p> <p>□□□□□<sup>E1</sup> I know my multiplication tables up to 12 x 12</p> <p>□□□□□<sup>E2</sup> When I do multiplication and division sums in my head, I use place value and my times tables knowledge (including multiplying by 0 and 1 and dividing by 1) to help me find answers; I can multiply three numbers together</p> <p>□□□□□<sup>9</sup> I can find answers to multiplication and division problems presented in different ways (including correspondence and scaling) and involving harder numbers; I can multiply two digit numbers by one digit by partitioning, multiplying and then adding (so I answer 39x7 by adding the answers to 30x7 and 9x7)</p> <p>□□□□□<sup>G1</sup> I can multiply two-digit and three-digit numbers by a one-digit number using formal written method</p>	<p>□□□□□<sup>e</sup> I can identify multiples and factors of a number; I can find all factor pairs of a number, and common factors of two numbers</p> <p>□□□□□<sup>E1</sup> I can multiply and divide numbers mentally (using my times tables knowledge)</p> <p>□□□□□<sup>E2</sup> I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>□□□□□<sup>f</sup> I can solve problems involving multiplication and division (using my knowledge of factors and multiples, squares and cubes)</p> <p>□□□□□<sup>9</sup> I can solve multiplication and division problems (including scaling by simple fractions) and problems involving simple rates</p> <p>□□□□□<sup>G1</sup> I can multiply numbers up to 4 digits by a one- or two-digit number using a written method (including long multiplication for two-digit numbers)</p> <p>□□□□□<sup>G2</sup> I can divide numbers up to 4 digits by a one-digit number using the written method of short division; I can interpret remainders appropriately for the context</p>
Fractions, decimals and percentages	<p>□□□□□<sup>h</sup> I can compare and order unit fractions (fractions with 1 as the numerator), and fractions with the same denominators</p>	<p>□□□□□<sup>i</sup> I know and can write down decimal equivalents to <math>\frac{1}{2}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math></p> <p>□□□□□<sup>j</sup> I can compare numbers with the same number of decimal places (up to two decimal places)</p> <p>□□□□□<sup>k</sup> I can find answers to problems involving harder fractions to work out quantities; I can use fractions (including non-unit fractions like <math>\frac{2}{3}</math> and <math>\frac{4}{5}</math> where the numerator is not "1") to divide quantities where the answer is a whole number</p>	<p>□□□□□<sup>h</sup> I can compare and order fractions with denominators that are multiples of the same number</p> <p>□□□□□<sup>i</sup> I can read and write decimal numbers as fractions (e.g. 0.71=71/100)</p> <p>□□□□□<sup>j</sup> I can read, write, order and compare numbers with up to three decimal places</p> <p>□□□□□<sup>k</sup> I can solve problems using my knowledge of percentage and decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25</p>
Measurement	<p>□□□□□<sup>l</sup> I know the number of seconds in a minute and the number of days in each month, year and leap year</p> <p>□□□□□<sup>m</sup> I can measure the perimeter of simple 2-D shapes</p>	<p>□□□□□<sup>l</sup> I can convert between different units of measurement (e.g. km to m, hour to minute)</p> <p>□□□□□<sup>m</sup> I can measure and calculate the perimeter of rectangles and squares in centimetres and metres</p> <p>□□□□□<sup>n</sup> I can find the area of rectangles and squares by counting squares</p>	<p>□□□□□<sup>l</sup> I can convert between different units of metric measures (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p> <p>□□□□□<sup>m</sup> I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p> <p>□□□□□<sup>n</sup> I can calculate and compare the area of rectangles (including squares), using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>)</p>
Properties of shape	<p>□□□□□<sup>a1</sup> I can draw simple 2-D shapes</p> <p>□□□□□<sup>a2</sup> I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines</p>	<p>□□□□□<sup>o</sup> I can identify acute and obtuse angles; I can compare and order angles (up to 180°) by size</p> <p>□□□□□<sup>p</sup> I can compare and group (classify) shapes (including quadrilaterals and triangles) based on properties and sizes</p>	<p>□□□□□<sup>o</sup> I can draw angles, and measure them in degrees (°)</p> <p>□□□□□<sup>p</sup> I can tell which shapes are regular and irregular polygons based on thinking about equal sides and angles.</p>
Statistics	<p>□□□□□<sup>q1</sup> I can find answers to one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in bar charts, pictograms and tables</p> <p>□□□□□<sup>q2</sup> I can understand and present data using bar charts, pictograms and tables</p>	<p>□□□□□<sup>q1</sup> I can use information presented in bar charts, pictograms, tables and other graphs to answer questions where I need to add, subtract or compare</p> <p>□□□□□<sup>q2</sup> I can understand and present data (discrete and continuous) using suitable graphs, (including bar charts and time graphs)</p>	<p>□□□□□<sup>q</sup> I can complete, read and interpret information in tables, including timetables</p>

Maths I have used in different topics, projects and subjects:

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My maths diary: what I particularly enjoyed; what helped me learn; important targets for me

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Name \_\_\_\_\_

Class \_\_\_\_\_ School Year \_\_\_\_\_

**Year 5 Mathematics**  
**Progress and Targets**  
**Booklet**