



Holy Trinity  
C of E (VC)  
Primary School  
Halstead

# Mathematics

# PROGRESSION MAP

September 2022

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# Maths EYFS

	Number	Pattern	Shape	Spatial Thinking
	<p>I can quickly recognise up to 3 objects, without having to count them individually.</p> <p>I can recite numbers past 5.</p> <p>I can say one number for each item in order: 1,2,3,4,5</p> <p>I know that the last number reached when counting a small set of objects tells me how many there are in total.</p> <p>I can show 'finger numbers' up to 5.</p> <p>I can link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5</p> <p>I am experimenting with my own symbols and marks as well as numerals.</p> <p>I can solve real world mathematical problems with numbers up to 5.</p> <p>I can compare quantities using language such as: 'more than', 'fewer than'.</p>	<p>I can understand position through words alone, for example, "The bag is under the table," - with no pointing</p> <p>I can make comparisons between objects relating to size, length, weight and capacity</p> <p>I can talk about and identify the patterns around me. For example: stripes on clothes, designs on rugs and wallpaper. I can use informal language like 'pointy', 'spotty', 'blobs' etc</p> <p>I can extend and create ABAB patterns - stick, leaf, stick, leaf</p> <p>I can notice and correct an error in a repeating pattern.</p> <p>I am beginning to describe a sequence of events, real or fictional, using words such as 'first', 'then...'</p>	<p>I can talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'</p> <p>I can select shapes appropriately; flat surfaces for building, a triangular prism for a roof etc.</p> <p>I can combine shapes to make new ones; an arch, a bigger triangle etc.</p>	<p>I can describe a familiar route</p> <p>I can discuss routes and locations, using words like 'in front of' and 'behind'</p>

# Maths Band 1

	Number and Place Value	Addition & Subtraction	Multiplication & Division	Fractions	Measurement	Properties of Shapes	Position and Direction
	<ul style="list-style-type: none"> <li>● I can count to and across 100, forwards and backwards, starting from any number.</li> <li>● I can count and read numbers to 100 in numerals.</li> <li>● I can count and write numbers to 100 in numerals.</li> <li>● I can count in jumps of 2, 5 and 10s.</li> <li>● I can identify 1 more and 1 less than a starting number.</li> <li>● I can find and show numbers using objects and pictures including number lines and use: equal to, more than, less than (fewer), most and least.</li> </ul>	<ul style="list-style-type: none"> <li>● I can read and understand number statements using +, - and =.</li> <li>● I can write number statements using +, - and =.</li> <li>● I can change calculations to give the same answers e.g <math>3+2=5</math>, then <math>5-2=3</math>.</li> <li>● I can show that addition is the opposite of subtraction, for example if <math>3+2=5</math>, then <math>5-2=3</math></li> <li>● I can remember most of the number bonds for 10 and link the connected facts.</li> <li>● I can use number bonds up to 20.</li> </ul>	<ul style="list-style-type: none"> <li>● I can answer multiplication questions using objects, pictures and other equipment.</li> <li>● I can answer division questions using objects, pictures and other equipment.</li> </ul>	<ul style="list-style-type: none"> <li>● I can find and name <math>\frac{1}{2}</math> (half) of an object, shape or amount.</li> <li>● I can find and name <math>\frac{1}{4}</math> (quarter) as one of four equal parts of an object, shape or amount.</li> </ul>	<ul style="list-style-type: none"> <li>● I can solve problems for length and height by telling which objects are longer or shorter / taller or shorter.</li> <li>● I can solve problems for mass and weights by telling which objects are heavier or lighter.</li> <li>● I can solve problems for capacity and volume by telling if a container is empty, half full or full and if there is more in one container than another.</li> <li>● I can solve problems for time. I can tell if something is quicker or slower. I can tell if something happened earlier or later.</li> </ul>	<ul style="list-style-type: none"> <li>● I can recognise and name common 2D shapes such as rectangles, squares, circles and triangles.</li> <li>● I can recognise and name common 3D shapes such as cuboids, cubes, pyramids and spheres.</li> </ul>	<ul style="list-style-type: none"> <li>● I can talk about whole, half, quarter and three quarter turns. I can then use this to explain movement, direction and position.</li> </ul>

	<ul style="list-style-type: none"> <li>● I can read and write numbers from 1 to 20 in numerals.</li> <li>● I can read and write numbers from 1 to 20 in words.</li> <li>● I can count in 2, 5 and 10s to solve problems.</li> <li>● I can partition and combine numbers using apparatus if needed.</li> </ul>	<ul style="list-style-type: none"> <li>● I can use subtraction facts up to 20.</li> <li>● I can add one digit and two digit numbers to 20.</li> <li>● I can subtract one digit and two digit numbers to 20.</li> <li>● I can answer problems that use addition and subtraction, including missing number problems, using objects and pictures.</li> </ul>			<ul style="list-style-type: none"> <li>● I can measure weight or mass and write these measurements down.</li> <li>● I can measure capacity or volume and write these measurements down.</li> <li>● I can measure time in hours, seconds or minutes and write these measurements down.</li> <li>● I can tell how much different coins or notes are worth.</li> <li>● I can tell when things happened by using these words: before, after, next, first, today, yesterday, tomorrow, morning, afternoon, evening.</li> <li>● I can talk about</li> </ul>		
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					<p>dates using days of the week, weeks, months and years.</p> <ul style="list-style-type: none"><li>● I can tell what the time is in hours and half past the hour. I can draw these on a clockface.</li><li>● I can measure and begin to record length/height.</li></ul>		
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# Maths Band 2

	Number and Place Value	Addition & Subtraction	Multiplication & Division	Fractions	Measurement	Properties of Shapes	Position and Direction	Statistics
	<ul style="list-style-type: none"> <li>• I can count forwards and backwards in steps of 2, 3, and 5 from 0, and in 10s from any number.</li> <li>• I can find the place value of each digit of a number with tens and ones.</li> <li>• I can find and show numbers using different equipment such as number lines and number squares.</li> <li>• I can compare and order numbers from 0 to 100; use &lt;, &gt; and = signs</li> <li>• I can read and write numbers to at least 100 in numerals</li> <li>• I can read and write numbers</li> </ul>	<ul style="list-style-type: none"> <li>• I can solve problems with addition and subtraction including those involving numbers, quantities and measures by using objects and pictures.</li> <li>• I can answer simple addition and subtraction questions in my head as well as by writing them down.</li> <li>• <b><u>I can recall number bonds to 10, use these to work out number bonds to 20, and link other related facts.</u></b></li> <li>• I can use addition and subtraction facts to 20 quickly and</li> </ul>	<ul style="list-style-type: none"> <li>• <b><u>I can remember and use multiplication and division facts for the 2, 5 and 10 times table</u></b> and recognise odd and even numbers.</li> <li>• <b><u>I can answer multiplication and division problems within the times tables using x, ÷ and =.</u></b></li> <li>• <b><u>I can show that multiplication of 2 numbers can be done in any order and division cannot.</u></b></li> <li>• I can solve problems involving multiplication and division mentally and</li> </ul>	<ul style="list-style-type: none"> <li>• <b><u>I can find, name and write fractions of a length, shape, set of objects or amount including 1/3, 1/4, 2/4 and 3/4.</u></b></li> <li>• I can write simple fractions, for example <math>1/2</math> of <math>6 = 3</math> and <math>2/4 = 1/2</math>.</li> </ul>	<ul style="list-style-type: none"> <li>• I can choose the right units to measure length, height, mass, temperature or capacity. I can read to the nearest unit and do this on rulers and scales.</li> <li>• I can compare amounts using &gt;, &lt; and =</li> <li>• I can use the £ sign and p sign. I can use notes and coins to make a particular amount.</li> <li>• <b><u>I can find different ways for coins to add up to an amount.</u></b></li> <li>• I can subtract money and give change.</li> <li>• I can put</li> </ul>	<ul style="list-style-type: none"> <li>• <b><u>I can notice and explain the properties of a 2D shape e.g number of sides and line of symmetry.</u></b></li> <li>• <b><u>I can notice and explain the properties of a 3D shape e.g number of edges, vertices and faces.</u></b></li> <li>• I can name some 2D and 3D shapes in pictures or in a group and know some of their properties</li> <li>• I can spot 2D shapes on the surface of 3D shapes such as a circle on a cylinder.</li> <li>• I can compare and sort 2D and 3D shapes</li> </ul>	<ul style="list-style-type: none"> <li>• I can order mathematical objects in patterns and sequences.</li> <li>• I can use mathematical vocabulary to describe position, direction and movement. This could include movement in a straight line.</li> </ul>	<ul style="list-style-type: none"> <li>• I can read and draw simple pictograms, tally charts, block diagrams and simple tables.</li> <li>• I can ask and answer simple questions by counting the number of objects in each category and sorting categories by quantity.</li> <li>• I can ask and answer questions about totalling and comparing grouped data.</li> </ul>

	<p>to at least 100 in words</p> <ul style="list-style-type: none"> <li>● I can use place value and number facts to answer questions.</li> <li>● <b><u>I can partition two digit numbers into different combinations of tens and ones using apparatus.</u></b></li> <li>● I can use reasoning within addition.</li> <li>● I can recall multiples of 10 below and above any 2 digit number.</li> </ul>	<p>workout similar facts to 100.</p> <ul style="list-style-type: none"> <li>● <b><u>I can add and subtract a two digit number and a one digit number mentally and when using objects, number lines and pictures.</u></b></li> <li>● <b><u>I can add and subtract a two digit number and tens mentally and when using objects, number lines and pictures.</u></b></li> <li>● <b><u>I can add and subtract 2 two digit numbers mentally and when using objects, number lines and pictures.</u></b></li> <li>● I can add 3 one digit numbers mentally and when using objects,</li> </ul>	<p>with objects.</p> <ul style="list-style-type: none"> <li>● I can answer questions involving multiplication and division using arrays and repeated addition.</li> <li>● I can use multiplication facts for 2, 5 and 10 to make deductions outside known multiplication facts.</li> <li>● I solve multiplication and division problems with more than one step.</li> <li>● I can rewrite addition statements as simplified multiplication statements.</li> </ul>		<p>different events in order and compare them.</p> <ul style="list-style-type: none"> <li>● I can tell the time to 5 minutes. <b><u>I can tell when it is quarter past or quarter to an hour. I can draw these on a clock.</u></b></li> <li>● I can tell you how many minutes are in an hour and how hours are in a day.</li> <li>● <b><u>I can read scales in divisions of ones, twos, fives and tens.</u></b></li> <li>● I can read scales where not all the numbers on the scale are given and work out points between</li> <li>● I can read time</li> </ul>	<p>and everyday objects.</p>		
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		<p>number lines and pictures.</p> <ul style="list-style-type: none"><li>● I can show that adding 2 numbers can be done in any order but subtraction can not.</li><li>● I can show that subtraction is the opposite of addition and use this to check my work.</li><li>● I can remember doubles and halves up to 20.</li><li>● I can use estimation to check my answers to a calculation that makes sense.</li><li>● I can solve missing number problems using addition and subtraction.</li></ul>			<p>on a clock to the nearest quarter of an hour.</p>			
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# Maths Band 3

Number & Place Value	Addition & Subtraction	Multiplication & Division	Fractions	Measurement	Properties of Shape	Statistics
<ul style="list-style-type: none"> <li>• I can count from 0 in multiples of 4, 8, 50 and 100 and can find 10 or 100 more or less than a given number</li> <li>• I can recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)</li> <li>• I can compare and order numbers up to 1,000</li> <li>• I can find, show and estimate numbers using objects and pictures.</li> <li>• I can read and write numbers up to 1000 in numerals.</li> <li>• I can read and write numbers to 1000 in words.</li> <li>• I can solve number and word problems.</li> <li>• I can identify, represent and estimate numbers using different representations</li> </ul>	<ul style="list-style-type: none"> <li>• I can add and subtract numbers in my head including a three digit number and ones.</li> <li>• I can add numbers with up to three digits using formal column methods.</li> <li>• I can add and subtract numbers in my head including a three digit number and tens.</li> <li>• I can subtract numbers with up to three digits using formal column methods.</li> <li>• I can add and subtract numbers in my head including a three digit number and hundreds.</li> <li>• I can estimate the answer to a calculation and use this and inverse operations to check answers.</li> <li>• I can solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction.</li> </ul>	<ul style="list-style-type: none"> <li>• I can recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>• I can calculate multiplication and division problems, both mentally, in writing, using times tables, including two digit numbers times one digit numbers.</li> <li>• I can solve problems including missing number problems, involving multiplication and division, including factors and ratio.</li> </ul>	<ul style="list-style-type: none"> <li>• I can count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</li> <li>• I can write and find fractions of a set of data and recognise fractions with small denominators.</li> <li>• I can find and use fractions of numbers such as <math>\frac{1}{4}</math> of 8 = 2 and <math>\frac{3}{4}</math> of 8 = 6.</li> <li>• I can identify and show equivalent fractions.</li> <li>• I can add fractions with the same denominator within one whole.</li> <li>• I can subtract fractions with the same denominator within one whole.</li> <li>• I can compare and order fractions with the same denominator.</li> <li>• I can solve fraction problems.</li> </ul>	<p>I can measure, compare, add and subtract lengths (m, cm and mm); mass (kg and g); volume and capacity (l and ml).</p> <ul style="list-style-type: none"> <li>• I can measure the perimeter of simple 2D shapes.</li> <li>• I can add and subtract change, using pounds and pence. I can do this with pound coins and notes.</li> <li>• I can tell the time on a clock face. I can do this if it uses the Roman numerals from I to XII and I can use the 12-hour or 24-hour clocks.</li> <li>• I can tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</li> <li>• I can estimate and read time to the nearest minute. I can record time in seconds, minutes and hours. I can use words such as o'clock, am/pm, morning, afternoon, noon and midnight</li> <li>• I can tell you the</li> </ul>	<ul style="list-style-type: none"> <li>• I can draw 2D shapes and make 3D shapes using modelling materials. I can recognise 3D shapes in different orientations.</li> <li>• I can recognise angles as a property of shape. I know that angles are a description of a turn.</li> <li>• I can spot right angles. I can spot when angles are greater or less than a right angle.</li> <li>• I know that 2 right angles make a half-turn, three make three quarters of a turn and four make a full turn.</li> <li>• I can spot horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> </ul>	<ul style="list-style-type: none"> <li>• I can interpret and present data using bar charts, pictograms and tables</li> <li>• I can solve one-step and two-step questions e.g "How many more?" and "How many fewer?" using information presented in scaled bar charts, pictograms and tables.</li> </ul>

					<p>number of seconds in a minute and the number of days in each month, year and leap year</p> <ul style="list-style-type: none"><li>• I can compare how much time is taken by different events or tasks.</li></ul>		
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# Maths Band 4

	Number & Place Value	Addition & Subtraction	Multiplication & Division	Fractions(inc decimals)	Measurement	Properties of Shape	Position and Direction	Statistics
	<ul style="list-style-type: none"> <li>I can count in multiples of 6, 7, 9, 25 and 1,000</li> <li>I can find 1,000 more or less than a given number</li> <li>I can count backwards through 0 to include negative numbers</li> <li>I can recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s and 1s)</li> <li>I can order and compare numbers beyond 1,000</li> <li>I can identify, represent and estimate numbers using different representations (including measures).</li> <li>I can round any number to the nearest 10, 100 or 1,000</li> <li>I can solve number and practical problems that involve large positive numbers</li> <li>I can read Roman</li> </ul>	<ul style="list-style-type: none"> <li>I can add numbers with up to four digits using formal column methods.</li> <li>I can estimate and use inverse operations to check answers to a calculation</li> <li>I can subtract numbers with up to four digits using formal column methods.</li> <li>I can solve two-step addition and subtraction problems using different methods and explain why I used them.</li> </ul>	<ul style="list-style-type: none"> <li>I can recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>I can use place value, known and number facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers</li> <li>I can use factor pairs in mental calculations</li> <li>I can multiply two-digit and three-digit numbers by a one-digit number using a formal written method.</li> <li>I can solve problems involving multiplying and adding, including the distributive law such as <math>3 \times (12 + 14) = 3 \times 12 + 3 \times 14</math></li> </ul>	<ul style="list-style-type: none"> <li>I can recognise and show, using diagrams, families of common equivalent fractions</li> <li>I can count up and down in hundredths and know that dividing an object by 100 creates hundredths and by 10 creates tenths.</li> <li>I can solve problems involving fractions to calculate quantities and fractions to divide quantities.</li> <li>I can add and subtract fractions with the same denominator</li> <li>I can recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>I can find and write decimal equivalents to <math>\frac{1}{4}</math>; <math>\frac{1}{2}</math>; <math>\frac{3}{4}</math></li> <li>I can divide one and two digit numbers by 10 and 100 and explain the effect this has</li> </ul>	<ul style="list-style-type: none"> <li>I can convert between different units of measure e.g km into m and hours into minutes.</li> <li>I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> <li>I can find the area of rectilinear shapes by counting squares</li> <li>I can estimate, compare and calculate different measures, including money in pounds and pence</li> <li>I can read, write and convert time between analogue and digital 12 and 24-hour clocks</li> <li>I can solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days</li> </ul>	<ul style="list-style-type: none"> <li>I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>I can identify acute and obtuse angles and compare and order angles up to two right angles by size</li> <li>I can identify lines of symmetry in 2D shapes presented in different orientations</li> <li>I can complete a simple symmetric figure with respect to a specific line of symmetry.</li> </ul>	<ul style="list-style-type: none"> <li>I can describe positions on a 2D grid as positive number coordinates</li> <li>I can describe movements between positions as translations of a given unit to the left/right and up/down</li> <li>I can plot points I am given and draw sides to complete a given polygon.</li> </ul>	<ul style="list-style-type: none"> <li>I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time charts.</li> <li>I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>

	numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value.			on place value. <ul style="list-style-type: none"><li>• I can round decimals using tenths to the nearest whole number</li><li>• I can compare numbers with the same number of decimal places up to two decimal places</li><li>• I can solve simple measure and money problems involving fractions and decimals to two decimal places.</li></ul>				
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# Maths Band 5

Number & Place Value	Addition & Subtraction	Multiplication & Division	Fractions (decimals & percentages)	Measurement	Properties of Shape	Position Direction	Statistics
<ul style="list-style-type: none"> <li>● I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit</li> <li>● I can keep multiplying a number by 10 or 100 up to 1,000,000 and count back.</li> <li>● I can use negative numbers in context when looking at temperature and money: counting forwards and backwards through 0.</li> <li>● I can round numbers up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000</li> </ul>	<ul style="list-style-type: none"> <li>● I can add and subtract numbers with more than 4 digits, using formal written methods.</li> <li>● I can add and subtract 2 and 3 digit numbers in my head.</li> <li>● I can use rounding to check answers to calculations and determine levels of accuracy</li> <li>● I can solve addition and subtraction multi-step problems in contexts, deciding which operations and method is the most suitable.</li> </ul>	<ul style="list-style-type: none"> <li>● I can find multiples and factors of a number and can identify factors common to 2 different numbers. .</li> <li>● I know and use the vocabulary of prime numbers, prime factors and composite numbers</li> <li>● I can establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>● I can multiply numbers up to 4 digits by a one- or two-digit number using a formal written method,</li> </ul>	<ul style="list-style-type: none"> <li>● I can compare and order fractions whose denominators are all multiples of the same number</li> <li>● I can find and name equivalent fractions of a given fraction including tenths and hundredths</li> <li>● I can write equivalent fractions of a given fraction including tenths and hundredths.</li> <li>● I can identify mixed numbers and improper fractions and convert from one form to the other such as <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math></li> <li>● I can add and</li> </ul>	<ul style="list-style-type: none"> <li>● I can convert between different units of metric measure e.g km and m; cm and m; g and kg; l and ml.</li> <li>● I can understand and compare equivalences between metric units and common imperial units. These might include inches, pounds or pints.</li> <li>● I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</li> <li>● I can calculate and compare the area of rectangles</li> </ul>	<ul style="list-style-type: none"> <li>● I can identify 3D shapes, including cubes and other cuboids, from 2D representations</li> <li>● I can estimate and compare acute, obtuse and reflex angles. I know that angles are measured in degrees.</li> <li>● I can draw given angles, and measure them in degrees (°)</li> <li>● I can identify: <ul style="list-style-type: none"> <li>* angles at a point and 1 whole turn (total 360°)</li> <li>* angles at a point on a straight line and half a turn (total 180°)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● I can identify, describe and represent the position of a shape following a reflection or translation. I can use the appropriate mathematical language to explain this and I know that the shape has not changed.</li> </ul>	<ul style="list-style-type: none"> <li>● I can solve comparison, sum and difference problems using information presented in a line graph</li> <li>● I can complete, read and interpret information in tables, including timetables.</li> </ul>

	<ul style="list-style-type: none"> <li>● I can solve number and practical problems that involve ordering and comparing numbers to 1 000 000, counting forwards and backwards in steps, negative numbers and rounding</li> <li>● I can read Roman numerals to 1,000 (M) and recognise years written in these.</li> </ul>		<ul style="list-style-type: none"> <li>● I can mentally multiply and divide numbers using the times tables.</li> <li>● I can divide numbers up to 4 digits by a one-digit number using the formal written method and can explain remainders.</li> <li>● I can multiply and divide whole numbers and decimal numbers by 10, 100 and 1,000</li> <li>● I can identify and use square numbers and their notation.</li> <li>● I can solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and</li> </ul>	<p>subtract fractions whose denominators are all multiples of the same number.</p> <ul style="list-style-type: none"> <li>● I can multiply fractions by whole numbers using objects and pictures.</li> <li>● I can read and write decimal numbers as fractions such as <math>0.71 = \frac{71}{100}</math></li> <li>● I can identify and use thousandths and can explain how they relate to tenths and hundredths and their decimal equivalents.</li> <li>● I can round decimals with two decimal places to the nearest whole number and to one decimal place.</li> </ul>	<p>(including squares) including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes</p> <ul style="list-style-type: none"> <li>● I can estimate volume by using 1cm<sup>3</sup> blocks to build cuboids (including cubes) and capacity by using water and different containers.</li> <li>● I can solve problems involving converting between units of time</li> <li>● I can use all four operations to solve problems involving measure e.g</li> </ul>	<p>* other multiples of 90°</p> <ul style="list-style-type: none"> <li>● I can use the properties of rectangles to find related facts and find missing lengths and angles</li> <li>● I can tell the difference between regular and irregular polygons. I can do this using reasoning about equal sides and angles.</li> </ul>		
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			<p>cubes.</p> <ul style="list-style-type: none"> <li>● I can identify and use cube numbers and their notation.</li> <li>● I can solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</li> <li>● I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</li> </ul>	<ul style="list-style-type: none"> <li>● I can read, write, order and compare numbers with up to three decimal places.</li> <li>● I can solve problems involving numbers up to three decimal places.</li> <li>● I can recognise the percent symbol (%) and understand that per cent relates to “number of parts per 100”, and write percentages as a fraction with denominator 100, and as a decimal fraction</li> <li>● I can solve problems which require knowing 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</li> </ul>	<p>length, mass, volume, money using decimal notation including scaling.</p>			
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				fractions with a denominator of a multiple of 10 or 25.				
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# Maths Band 6

Number & Place Value	Addition, Subtraction, Multiplication & Division	Fractions (decimals & percentages)	Ratio & Proportion	Algebra	Measurement	Properties of Shape	Position Direction	Statistics
<ul style="list-style-type: none"> <li>• I can read, write, order and compare numbers up to 10 000 000 (ten million) and say the value of each digit</li> <li>• I can round any whole number to a required degree of accuracy</li> <li>• I can use negative numbers in context when looking at temperature or money, counting in jumps forwards and backwards through 0.</li> <li>• I can solve number and practical problems that involve ordering and comparing</li> </ul>	<ul style="list-style-type: none"> <li>• I can mentally calculate using a mix of the four operations.</li> <li>• I can solve problems with more than one step and operation and explain why I used them.</li> <li>• I can solve addition and subtraction word/ practical problems.</li> <li>• I can use estimation to check answers to calculations and determine an appropriate degree of accuracy.</li> <li>• I can multiply numbers of up to 4 digits</li> </ul>	<ul style="list-style-type: none"> <li>• I can use common factors and multiples to simplify fractions and express fractions in the same denominator.</li> <li>• I can compare and order fractions, including fractions <math>&gt;1</math></li> <li>• I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li> <li>• I can multiply simple pairs of proper</li> </ul>	<ul style="list-style-type: none"> <li>• I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</li> <li>• I can solve problems involving the calculation of percentages and the use of percentages for comparison</li> <li>• I can solve problems involving similar shapes where the scale factor is known or can</li> </ul>	<ul style="list-style-type: none"> <li>• I can use simple formulae</li> <li>• I can generate and describe linear number sequences</li> <li>• I can express missing number problems algebraically</li> <li>• I can find pairs of numbers that satisfy an equation with two unknowns</li> <li>• I can enumerate possibilities of combinations of 2 variables.</li> </ul>	<ul style="list-style-type: none"> <li>• I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 2 decimal places where appropriate</li> <li>• I can use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to</li> </ul>	<ul style="list-style-type: none"> <li>• I can draw 2D shapes using given dimensions and angles</li> <li>• I can recognise, describe and build simple 3D shapes, including making nets</li> <li>• I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</li> <li>• I can illustrate and name parts</li> </ul>	<ul style="list-style-type: none"> <li>• I can describe positions on the full coordinate grid (all 4 quadrants)</li> <li>• I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>	<ul style="list-style-type: none"> <li>• I can interpret and construct pie charts and line graphs and use these to solve problems</li> <li>• I can calculate and interpret the mean as an average.</li> </ul>

	<p>numbers to 10 000 000, rounding to a required degree of accuracy, using negative numbers and counting intervals across zero.</p> <ul style="list-style-type: none"> <li>● I can show understanding of place value including decimals.</li> </ul>	<p>by a two digit number using a formal written method.</p> <ul style="list-style-type: none"> <li>● I can divide numbers of up to 4 digits by a two digit number using a formal written method of long division, showing remainders, fractions or rounding as appropriate.</li> <li>● I can divide numbers of up to 4 digits by a two digit number using a formal written method of short division, showing remainders, fractions or rounding as appropriate.</li> <li>● I can mentally calculate using a mix of the four</li> </ul>	<p>fractions, writing the answer in its simplest form such as <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math></p> <ul style="list-style-type: none"> <li>● I can divide proper fractions by whole numbers such as <math>\frac{1}{3} \div 2 = \frac{1}{6}</math></li> <li>● I can link a fraction with division and work out decimal fractions such as knowing that 7 is divided by 21 is the same as <math>\frac{7}{21}</math> and this is equal to <math>\frac{1}{3}</math>, and 0.378 is <math>\frac{3}{8}</math> as a simple fraction.</li> <li>● I can explain the place value of any digit in a number with decimal places and multiply or</li> </ul>	<p>be found</p> <ul style="list-style-type: none"> <li>● I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>		<p>up to 3 decimal places</p> <ul style="list-style-type: none"> <li>● I can convert between miles and kilometres</li> <li>● I can recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>● I can recognise when it is possible to use formulae for area and volume of shapes</li> <li>● I can calculate the area of parallelograms and triangles</li> <li>● I can calculate, estimate and</li> </ul>	<p>of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p> <ul style="list-style-type: none"> <li>● I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>		
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		<p>operations and increasingly large numbers.</p> <ul style="list-style-type: none"> <li>● I can identify common factors, multiples and prime numbers.</li> <li>● I can use the order of importance of the four operations when answering questions.</li> <li>● I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and explain why they are suitable.</li> <li>● I can solve problems involving addition, subtraction, multiplication and division.</li> </ul>	<p>divide these by 10,100 or 1000</p> <ul style="list-style-type: none"> <li>● I can multiply one-digit numbers with up to 2 decimal places by whole numbers</li> <li>● I can use written division methods in cases where the answer has up to 2 decimal places</li> <li>● I can solve problems which require answers to be rounded to specified degrees of accuracy</li> <li>● I can recall and use equivalences between simple fractions, decimals and</li> </ul>			<p>compare the volume of cubes and cuboids using standard units, including cubic centimetres (cm<sup>3</sup>) and cubic metres (m<sup>3</sup>), and extending to other units.</p>			
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