

## **Maths Overview**

At St. Paul's we want our children to love Maths and engage with the subject in a way that is relevant and purposeful to them and their lives. We want them to be inspired and motivated to develop essential skills in fluency, reasoning and problem solving that will enable them to flourish in later life. Our core Maths skills in calculation, number facts and times tables are the basis from which our fluency in number is derived and as such form the key building blocks of our Maths curriculum. These will be an integral part of our daily teaching. We will use our school values of wisdom, trust and perseverance to ensure that skills and knowledge are revisited in a timely and relevant manner using assessment to inform what we teach. Our teaching is informed by existing schemes of work whilst being enabled by our own trusted pedagogy. Our teaching will build the knowledge and model the skills needed to become confident Mathematicians by ensuring careful progression using an appropriate combination of concrete, visual and abstract methods and resources.



# **MATHEMATICS**

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content	Range 5	Range 5	Range 6	Range 6	Statutory ELG: Number	Statutory ELG: Numbe
	Comparison	Comparison	Comparison	Comparison	Children at the expected	Children at the
	Compares two small	To introduce things and	<ul> <li>Uses number names</li> </ul>	<ul> <li>Uses number</li> </ul>	level of development	expected level of
	groups of up to five	relative size.	and symbols when	names and symbols	will:	development will:
	objects,		comparing numbers,	when comparing	- Have a deep	- Have a deep
		To use number names	showing interest in	numbers, showing	understanding of	understanding of
	Counting	and symbols from o to	large numbers	interest in large	number to 10, including	number to 10, includi
	To count o to 5 using	10.			the composition of each	the composition of
	one to one		• Estimates of	numbers	number;	each number;
	correspondence	Counting	numbers of things,	• Estimates of	- Subitise (recognise	- Subitise (recognise
		Reciting and ordering	showing	numbers of things,	quantities without	quantities without
	Recognise numerals up	numbers o to 10	understanding of	showing	counting) up to 5;	counting) up to 5;
	to 10		relative size	understanding of	- Automatically recall	- Automatically recall
		To know the term total.		relative size	(without reference to	(without reference to
	Cardinality		Counting		rhymes, counting or	rhymes, counting or
	To subitise 1,2 and 3	Cardinality	<ul> <li>Enjoys reciting</li> </ul>	Counting	other aids) number	other aids) number
	objects.	To subitise to 4 and	numbers from 0 to 10	<ul> <li>Increasingly</li> </ul>	bonds up to 5 (including	bonds up to 5
		maybe 5.	(and beyond) and back	confident at putting	subtraction facts) and	(including subtraction
	Composition		from 10 to 0	numerals in order o to	some number bonds to	facts) and some
	To know that numbers	Composition		10 (ordinality)	10, including double	number bonds to 10,
	are made up of smaller	1 more.	Cardinality		facts	including double facts
	numbers.		<ul> <li>Engages in subitising</li> </ul>	Cardinality		
		Separates and solves	numbers to four and	<ul> <li>Matches the</li> </ul>	Statutory ELG:	Statutory ELG:
	Spatial awareness	practical problems with	maybe five	numeral with a group	Numerical Patterns	Numerical Patterns
	Responds to and uses	number up to 10.	• Counts out up to 10	of items to show how	Children at the expected	Children at the
	language of position		objects from a larger	many there are (up to	level of development	expected level of
	and direction	Spatial awareness	group	10)	will:	development will:
		Predicts, moves and			- Verbally count beyond	- Verbally count beyon
	Shape	rotates objects to fit	Composition	Composition	20, recognising the	20, recognising the
		the space or create the	<ul><li>Shows awareness</li></ul>	<ul> <li>In practical</li> </ul>	pattern of the counting	pattern of the counti
		shape they would like.	that numbers are made	activities, adds one	system;	system;



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D	<u> </u>	(	~	Charen of England (The	
Response to common	Ch	up (composed) of	and subtracts one	- Compare quantities up	- Compare quantities
shape names 2D	Shape	smaller numbers,	with numbers to 10	to 10 in different	up to 10 in different
shapes.	Enjoys partitioning and	exploring partitioning	Begins to explore	contexts, recognising	contexts, recognising
	combining shapes to	in different ways with a	and work out	when one quantity is	when one quantity is
Awareness of shape	make new shapes with	wide range of objects	mathematical	greater than, less than	greater than, less than
similairities and	2D and 3D shapes.	Begins to	problems, using signs	or the same as the other	or the same as the
differences		conceptually subitise	and strategies of their	quantity;	other quantity;
	Pattern	larger numbers by	own choice, including	- Explore and represent	- Explore and represent
Pattern	Joins in with simple	subitising smaller	(when appropriate)	patterns within numbers	patterns within
Creating and exploring	patterns, objects,	groups within the	standard numerals,	up to 10, including evens	numbers up to 10,
patterns.	games and stories.	number, e.g. sees six	tallies and "+" or "-"	and odds, double facts	including evens and
		raisins on a plate as		and how quantities can	odds, double facts and
Measures	Measures	three and three	Spatial awareness	be distributed equally.	how quantities can be
Recalls a sequence of	In meaningful contexts,		<ul> <li>Investigates turning</li> </ul>		distributed equally.
events in everyday life	finds the longer or	Spatial awareness	and flipping objects in		
and stories.	shorter, heavier or	<ul> <li>Uses spatial</li> </ul>	order to make shapes		
	lighter and more/less	language, including	fit and create models;		
Range 6	full of two items.	following and giving	predicting and		
Measures		directions, using	visualising how they		
Enjoys tackling		relative terms and	will look (spatial		
problems involving		describing what they	reasoning)		
prediction and		see from different	<ul> <li>May enjoy making</li> </ul>		
discussion of		viewpoints	simple maps of		
comparisons of length,			familiar and		
weight or capacity,		Shape	imaginative		
paying attention to		Uses informal language	environments, with		
fairness and accuracy		and analogies, (e.g.	landmarks		
		heart-shaped and hand-			
		shaped leaves), as well	Shape		
		as mathematical terms	Uses informal		
		to describe shapes	language and		
		<ul> <li>Enjoys composing</li> </ul>	analogies, (e.g. heart-		
		and decomposing	shaped and hand-		
		shapes, learning which	shaped leaves), as		
		shapes combine to	well as mathematical		
		make other shapes	terms to describe		
		· ·	l .		

shapes



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<ul> <li>Uses own ideas to</li> </ul>	<ul> <li>Enjoys composing</li> </ul>	
make models of	and decomposing	
increasing complexity,	shapes, learning	
selecting blocks	which shapes combine	
needed, solving	to make other shapes	
problems and	<ul> <li>Uses own ideas to</li> </ul>	
visualising what they	make models of	
will build.	increasing complexity,	
	selecting blocks	
Pattern	needed, solving	
Spots patterns in the	problems and	
environment,	visualising what they	
beginning to identify	will build.	
the pattern "rule"		
<ul> <li>Chooses familiar</li> </ul>	Pattern	
objects to create and	Spots patterns in the	
recreate repeating	environment,	
patterns beyond AB	beginning to identify	
patterns and begins to	the pattern "rule"	
identify the unit of	<ul> <li>Chooses familiar</li> </ul>	
repeat	objects to create and	
	recreate repeating	
Measures	patterns beyond AB	
<ul> <li>Enjoys tackling</li> </ul>	patterns and begins to	
problems involving	identify the unit of	
prediction and	repeat	
discussion of		
comparisons of length,	Measures	
weight or capacity,	<ul> <li>Becomes familiar</li> </ul>	
paying attention to	with measuring tools	
fairness and accuracy	in everyday	
• Is increasingly able to	experiences and play	
order and sequence	<ul> <li>Beginning to</li> </ul>	
events using everyday	experience measuring	
language related to	time with timers and	
time	calendars	



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Skills	Controlling devices (BeeBots, Code-a-Pillar, Botley the Coding Robot, Spheros and unplugged activities) provide opportunities to develop pupils' understanding of left and right, along with directional language. Pupils are asked to guide a device around a shape, and use activities from programming related websites, such as
and continu	code.org, to develop their understanding further. However, activities which engage pupils in programming tasks need to be carefully considered to ensure they
ous	have a clear purpose. (Computing)
provisio	
n	



#### Year 1 Overview 2022 – 2023

Week	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<u>1</u>	<u>Place Value</u>	<u>Place Value</u>	Multiplication and Division
<u>2</u>	<u>Place Value</u>	<u>Place Value</u>	Multiplication and Division
<u>3</u>	<u>Place Value</u>	<u>Place Value</u>	Multiplication and Division
<u>4</u>	<u>Place Value</u>	Number – addition and subtraction (within 20)	<u>Number – Fractions</u>
<u>5</u>	<u>Place Value</u>	Number – addition and subtraction (within 20)	<u>Number – Fractions</u>
<u>6</u>	Addition and Subtraction	Number – addition and subtraction (within 20)	Geometry – position and Direction
<u>7</u>	Addition and Subtraction	<u>Number – Place Value</u>	Number – Place Value (within 100)
<u>8</u>	Addition and Subtraction	<u>Number – Place Value</u>	Number – Place Value (within 100)
<u>9</u>	Addition and Subtraction	Measurement – Length and Height	<u>Measurement – Money</u>
<u>10</u>	Addition and Subtraction	Measurement – Length and Height	<u>Measurement – Time</u>
<u>11</u>	<u>Shape</u>	Measurement – Weight and Volume	<u>Measurement – Time</u>
<u>12</u>	Consolidation	Measurement – Weight and Volume	Assessment and Consolidation

Area of Maths	<u>Year Before</u>	<u>Year At</u>	<u>Year After</u>
Number		<ul> <li>Count to and across 100, forwards and backwards beginning with 0 or 1, or from any given number</li> <li>Count, read and write numbers to 100 in numerals</li> <li>Count in multiples of 2s, 5s and 10s</li> <li>Given a number, identify one more and one less</li> <li>Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least</li> <li>Read and write numbers from 1 to 20 in numerals and words</li> </ul>	<ul> <li>Count in steps of 2, 3, and 5 from zero, and in tens from any number, BOTH forwards and backwards</li> <li>Recognise the place value of each digit in a two-digit number (tens and ones)</li> <li>Identify, represent and estimate numbers</li> <li>Compare and order numbers from 0 up to 100; use &lt; (less than) &gt; (more than) and = (equals) signs</li> <li>Read and write numbers up to at least 100 in numerals AND in words</li> <li>Use place value and number facts to solve problems</li> </ul>
Addition and Subtraction		<ul> <li>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=)</li> </ul>	<ul> <li>Use concrete objects and pictorial representations to solve problems, mentally and on paper, with addition and subtraction including money and measures</li> </ul>



		~	Church of England (Alded) Frimary School
	<ul> <li>Represent and use number bonds and related subtraction facts within 20 e.g. 5 + 2 = 7, 7 - 2 = 5, 7 - 5 = 2</li> <li>Add and subtract one-digit and two-digit numbers to 20, including 0</li> <li>Solve one-step problems that involve addition &amp; subtraction using concrete objects &amp; pictorial representations, &amp; missing number problems such as 7 = ? - 9</li> </ul>	•	Read and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 e.g. $1 + 6 = 7$ so $10 + 60 = 70$ or $70 - 10 = 60$ and $7 - 1 = 6$ Add and subtract numbers using concrete objects, pictorial representations, and mentally including adding or subtracting one or ten to/from a two-digit number, adding and subtracting two two-digit numbers and adding three one-digit numbers  Know and show that addition of numbers can be done in any order and that subtraction of one number from another cannot  Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve number problems
Multiplication and Division	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with support of the support of an adult		Recall and use multiplication AND division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers  Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x) and division (÷) and equals (=) signs  Show that multiplication of two numbers can be done in any order and division of one number by another cannot  Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context e.g. money and measures
Fractions	Recognise, find and name half as 1 of 2 equal parts of an object, shape or quantity	•	Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of a length, shape, set of object or a quantity



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	<ul> <li>Recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity</li> </ul>	• Write simple fractions, for example ½ of 6 = 3 and recognise the equivalence of ½ and 2/4
Measurement	Compare, describe and solve practical problems for:  • Lengths and heights e.g. long/short, longer/shorter, tall/short, double/half  • Mass/weight e.g. heavy/light, heavier than/lighter than  • Capacity and volume e.g. full/empty, more than, less than, half, half full, quarter  • Time e.g. quicker, slower, earlier, later Measure and begin to record the following:  • Lengths and heights  • Mass/weight  • Capacity and volume  • Time (hours, minutes, seconds)  • Recognise and know the value of different denominations of coins and notes  • Sequence events in chronological order using language such as after, next, first, today, yesterday, tomorrow, morning, afternoon, evening  • Recognise and use language relating to dates, including days of the week, weeks, months and years  • Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	<ul> <li>Choose and use appropriate standard units to estimate length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =</li> <li>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</li> <li>Find different combinations of coins that equal the same amounts of money</li> <li>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</li> <li>Compare and sequence intervals of time</li> <li>Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times</li> <li>Know the number of minutes in an hour and the number of hours in a day</li> </ul>
Geometry	<ul> <li>Recognise and name common 2-D and 3-D shapes, including</li> <li>2-D shapes e.g. oblong, square, circle, triangle</li> <li>3-D shapes e.g. cube, cuboid, pyramid, sphere</li> <li>Describe position, direction and movement, including whole, half, quarter and three</li> </ul>	<ul> <li>Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line</li> <li>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</li> </ul>
	including whole, half, quarter and three- quarter turns e.g. describing a route using language such as forward, backward, left and right	<ul> <li>Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</li> </ul>



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		•	Compare and sort common 2-D and 3-D shapes and everyday objects Order and arrange combinations of mathematical objects in patterns and sequences Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)
Statistics		•	Interpret and construct simple pictograms, tally charts, block diagrams and tables Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity Ask-and-answer questions about totalling and comparing categorical data



### Year 2 Overview 2022-23

<u>Week</u>	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<u>1</u>	<u>Place Value</u>	<u>Money</u>	<u>Fractions</u>
<u>2</u>	<u>Place Value</u>	<u>Money</u>	<u>Fractions</u>
<u>3</u>	<u>Place Value</u>	Multiplication and Division	<u>Fractions</u>
<u>4</u>	<u>Place Value</u>	Multiplication and Division	<u>Time</u>
<u>5</u>	Addition and Subtraction	Multiplication and Division	<u>Time</u>
<u>6</u>	Addition and Subtraction	Multiplication and Division	<u>Time</u>
<u>7</u>	Addition and Subtraction	Multiplication and Division	<u>Statistics</u>
<u>8</u>	Addition and Subtraction	Length and Height	<u>Statistics</u>
<u>9</u>	Addition and Subtraction	Length and Height	Position and Direction
<u>10</u>	<u>Shape</u>	Mass, capacity and temperature	Position and Direction
<u>11</u>	<u>Shape</u>	Mass, capacity and temperature	<u>Consolidation</u>
<u>12</u>	<u>Shape</u>	Mass, capacity and temperature	<u>Consolidation</u>

Area of Maths	<u>Year Before</u>	<u>Year At</u>	<u>Year After</u>
Number	<ul> <li>Count to and across 100, forwards and backwards beginning with 0 or 1, or from any given number</li> <li>Count, read and write numbers to 100 in numerals</li> <li>Count in multiples of 2s, 5s and 10s</li> <li>Given a number, identify one more and one less</li> <li>Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least</li> <li>Read and write numbers from 1 to 20 in numerals and words</li> </ul>	<ul> <li>Count in steps of 2, 3, and 5 from zero, and in tens from any number, BOTH forwards and backwards</li> <li>Recognise the place value of each digit in a two-digit number (tens and ones)</li> <li>Identify, represent and estimate numbers</li> <li>Compare and order numbers from 0 up to 100; use &lt; (less than) &gt; (more than) and = (equals) signs</li> <li>Read and write numbers up to at least 100 in numerals AND in words</li> <li>Use place value and number facts to solve problems</li> </ul>	<ul> <li>Count in 4s, 8s, 50s and 100s from any number</li> <li>Read and write numbers up to 100 in numbers and words</li> <li>Compare and order numbers up to 1000</li> <li>Recognise place value of three-digit numbers</li> <li>Find ten more of ten less than a given number</li> <li>Solving problems that involve all of the above</li> </ul>
Addition and Subtraction	<ul> <li>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=)</li> </ul>	<ul> <li>Use concrete objects and pictorial representations to solve problems, mentally and on paper, with addition and subtraction including money and measures</li> </ul>	Add and subtract numbers mentally including a three digit number and ones, a three digit number and tens, a three digit number and hundreds



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	<ul> <li>Represent and use number bonds and related subtraction facts within 20 e.g. 5 + 2 = 7, 7 - 2 = 5, 7 - 5 = 2</li> <li>Add and subtract one-digit and two-digit numbers to 20, including 0</li> <li>Solve one-step problems that involve addition &amp; subtraction using concrete objects &amp; pictorial representations, &amp; missing number problems such as 7 = ? - 9</li> </ul>	<ul> <li>Read and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 e.g. 1 + 6 = 7 so 10 + 60 = 70 or 70 - 10 = 60 and 7 - 1 = 6</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally including adding or subtracting one or ten to/from a two-digit number, adding and subtracting two two-digit numbers and adding three one-digit numbers</li> <li>Know and show that addition of numbers can be done in any order and that subtraction of one number from another cannot</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve number problems</li> </ul>	<ul> <li>Add and subtract numbers with up to three-digits using an efficient written method</li> <li>Estimate the answers to a calculation and use the inverse to check answers</li> <li>Solve missing number problems using number facts, place value, and more complex addition and subtraction</li> </ul>
Multiplication and Division	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with support of the support of an adult	<ul> <li>Recall and use multiplication AND division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x) and division (÷) and equals (=) signs</li> <li>Show that multiplication of two numbers can be done in any order and division of one number by another cannot</li> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context e.g. money and measures</li> </ul>	<ul> <li>Recall and use multiplication and division facts for the 3, 4, and 8 multiplication tables</li> <li>Multiply and divide numbers mentally and using an efficient written method (up to TU x U and TU ÷ U)</li> <li>Solve problems, including missing number problems, involving multiplication and division, including scaling problems</li> </ul>
Fractions	<ul> <li>Recognise, find and name half as 1 of 2 equal parts of an object, shape or quantity</li> </ul>	• Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of object or a quantity	<ul><li>Count up and down in tenths</li><li>Understand what tenths mean</li></ul>



Recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity	• Write simple fractions, for example ½ of 6 = 3 and recognise the equivalence of ½ and 2/4	<ul> <li>Recognise, find and write fractions of a set of objects e.g. % of 12 pencils or % of 20 shells</li> <li>Recognise and show, using diagrams, equivalent fractions</li> <li>Compare and order fractions with the same denominator</li> <li>Add and subtract fractions with the same denominator within one whole e.g. 5/7 + 1/7 = 6/7</li> <li>Solve problems that involve all of the above</li> </ul>
Measurement  Compare, describe and solve practical problems for:  Lengths and heights e.g. long/short, longer/shorter, tall/short, double/half  Mass/weight e.g. heavy/light, heavier than/lighter than  Capacity and volume e.g. full/empty, more than, less than, half, half full, quarter  Time e.g. quicker, slower, earlier, later Measure and begin to record the following:  Lengths and heights  Mass/weight  Capacity and volume  Time (hours, minutes, seconds)  Recognise and know the value of different denominations of coins and notes  Sequence events in chronological order using language such as after, next, first, today, yesterday, tomorrow, morning, afternoon, evening  Recognise and use language relating to dates including days of the week, weeks, months and years  Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	subtraction of money of the same unit, including giving change  Compare and sequence intervals of time	<ul> <li>Compare and measure: lengths, masses, volumes/capacities</li> <li>Tell and write the time on an analogue clock (12 and 24 hour)</li> <li>Know and use facts about time e.g. 60 minutes in an hour, 365 days in a year/366 in a leap year and vocabulary about time e.g. am/pm</li> <li>Calculate durations of time</li> <li>Measure the perimeter of simple shapes</li> <li>Add and subtract amounts of money (including giving change)</li> <li>Add and subtract in the context of length, mass and capacity/volume</li> </ul>



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Geometry	<ul> <li>Recognise and name common 2-D and 3-D shapes, including</li> <li>2-D shapes e.g. oblong, square, circle, triangle</li> <li>3-D shapes e.g. cube, cuboid, pyramid, sphere</li> <li>Describe position, direction and movement, including whole, half, quarter and three-quarter turns e.g. describing a route using language such as forward, backward, left and right</li> </ul>	<ul> <li>Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line</li> <li>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</li> <li>Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</li> <li>Compare and sort common 2-D and 3-D shapes and everyday objects</li> <li>Order and arrange combinations of mathematical objects in patterns and sequences</li> <li>Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)</li> </ul>	•	Identify horizontal, vertical, perpendicular an parallel lines in shapes Draw 2-D shapes using given dimensions and angles Make and describe 3-D shapes Recognise angles within a shape as a right angle, less than a right angle or greater than a right angle and as an angle of turn
Statistics		<ul> <li>Interpret and construct simple pictograms, tally charts, block diagrams and tables</li> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</li> <li>Ask-and-answer questions about totalling and comparing categorical data</li> </ul>	٠	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



#### Year 3 Overview 2022-23

<u>Week</u>	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<u>1</u>	<u>Place Value</u>	Multiplication and Division B	<u>Fractions B</u>
<u>2</u>	<u>Place Value</u>	Multiplication and Division B	<u>Fractions B</u>
<u>3</u>	<u>Place Value</u>	Multiplication and Division B	<u>Money</u>
<u>4</u>	Addition and Subtraction	<u>Length and Perimeter</u>	<u>Money</u>
<u>5</u>	Addition and Subtraction	<u>Length and Perimeter</u>	<u>Measurement – Time</u>
<u>6</u>	Addition and Subtraction	<u>Length and Perimeter</u>	<u>Measurement – Time</u>
<u>7</u>	Addition and Subtraction	<u>Fractions A</u>	<u>Measurement - Time</u>
<u>8</u>	Addition and Subtraction	<u>Fractions A</u>	<u>Shape</u>
<u>9</u>	Multiplication and Division A	<u>Fractions A</u>	<u>Shape</u>
<u>10</u>	Multiplication and Division A	Mass and Capacity	<u>Statistics</u>
<u>11</u>	Multiplication and Division A	Mass and Capacity	<u>Statistics</u>
<u>12</u>	Multiplication and Division A	Mass and Capacity	Consolidation and Assessment

Area of Maths	<u>Year Before</u>	<u>Year At</u>	<u>Year After</u>
Number	<ul> <li>Count in steps of 2, 3, and 5 from zero, and in tens from any number, BOTH forwards and backwards</li> <li>Recognise the place value of each digit in a two-digit number (tens and ones)</li> <li>Identify, represent and estimate numbers</li> <li>Compare and order numbers from 0 up to 100; use &lt; (less than) &gt; (more than) and = (equals) signs</li> <li>Read and write numbers up to at least 100 in numerals AND in words</li> <li>Use place value and number facts to solve problems</li> </ul>	<ul> <li>Count in 4s, 8s, 50s and 100s from any number</li> <li>Read and write numbers up to 100 in numbers and words</li> <li>Compare and order numbers up to 1000</li> <li>Recognise place value of three-digit numbers</li> <li>Find ten more of ten less than a given number</li> <li>Solving problems that involve all of the above</li> </ul>	<ul> <li>Count in multiples of 6, 7, 9, 25 and 1,000</li> <li>Find 1,000 more or less than a given number</li> <li>Count backwards through 0 to include negative numbers</li> <li>Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)</li> <li>Order and compare numbers beyond 1,000</li> <li>Identify, represent and estimate numbers using different representations</li> <li>Round any number to the nearest 10, 100 or 1,000</li> <li>Solve number and practical problems that involve all of the above and with increasingly large positive number</li> </ul>
Addition and Subtraction	<ul> <li>Use concrete objects and pictorial representations to solve problems, mentally and on paper, with addition and subtraction including money and measures</li> </ul>	<ul> <li>Add and subtract numbers mentally including a three digit number and ones, a three digit number and tens, a three digit number and hundreds</li> </ul>	<ul> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>Estimate and use inverse operations to check answers to a calculation</li> </ul>



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	<ul> <li>Read and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 e.g. 1 + 6 = 7 so 10 + 60 = 70 or 70 - 10 = 60 and 7 - 1 = 6</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally including adding or subtracting one or ten to/from a two-digit number, adding and subtracting two two-digit numbers and adding three one-digit numbers</li> <li>Know and show that addition of numbers can be done in any order and that subtraction of one number from another cannot</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve number problems</li> </ul>	<ul> <li>Add and subtract numbers with up to three-digits using (when needed) an efficient written method</li> <li>Estimate the answers to a calculation and use the inverse to check answers</li> <li>Solve missing number problems using number facts, place value &amp; more complex addition &amp; subtraction</li> </ul>	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Multiplication and Division	<ul> <li>Recall and use multiplication AND division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x) and division (÷) and equals (=) signs</li> <li>Show that multiplication of two numbers can be done in any order and division of one number by another cannot</li> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context e.g. money and measures</li> </ul>	<ul> <li>Recall and use multiplication and division facts for the 3, 4, and 8 multiplication tables</li> <li>Multiply and divide numbers mentally and using an efficient written method (up to TU x U and TU ÷ U)</li> <li>Solve problems, including missing number problems, involving multiplication and division, including scaling problems</li> </ul>	<ul> <li>Recall multiplication and division facts for multiplication tables up to 12 × 12</li> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers</li> <li>Recognise and use factor pairs and commutativity in mental calculations</li> <li>Multiply 2-digit and 3-digit numbers by a one-digit number using formal written layout</li> <li>Divide two-digit numbers by a single digit (leading to short division)</li> <li>Solve problems involving multiplying and division, including scaling problems</li> <li>Solve problems involving division including questions such as 3 cakes shared equally between 10 children.</li> </ul>
Fractions	<ul> <li>Recognise, find, name and write fractions 1/3,</li> <li>¼, 2/4 and ¾ of a length, shape, set of object or a quantity</li> </ul>	<ul><li>Count up and down in tenths</li><li>Understand what tenths mean</li></ul>	Recognise and show, using diagrams, families of common equivalent fractions



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	• Write simple fractions, for example ½ of 6 = 3 and recognise the equivalence of ½ and 2/4	<ul> <li>Recognise, find and write fractions of a set of objects e.g. ¼ of 12 pencils or ¾ of 20 shells</li> <li>Recognise and show, using diagrams, equivalent fractions</li> <li>Compare and order fractions with the same denominator</li> <li>Add and subtract fractions with the same denominator within one whole e.g. 5/7 + 1/7 = 6/7</li> <li>Solve problems that involve all of the above</li> </ul>	<ul> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10</li> <li>Solve problems involving increasingly harder fractions to calculate quantities, fractions to divide quantities, including non-unit fractions where the answer is a whole number</li> <li>Add and subtract fractions with the same denominator</li> <li>Recognise and write decimal equivalents of any number of tenths or hundreds</li> <li>Recognise and write decimal equivalents to 1/4, 1/2, 3/4</li> <li>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li> <li>Round decimals with 1 decimal place to the nearest whole number</li> <li>Compare numbers with the same number of decimal places up to 2 decimal places</li> <li>Solve simple measure and money problems involving fractions and decimals to 2 decimal places</li> </ul>
Measurement	<ul> <li>Choose and use appropriate standard units to estimate length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =</li> <li>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</li> </ul>	<ul> <li>Compare and measure: lengths, masses, volumes/capacities</li> <li>Tell and write the time on an analogue clock (12 and 24 hour)</li> <li>Know and use facts about time e.g. 60 minutes in an hour, 365 days in a year/366 in a leap year and vocabulary about time e.g. am/pm</li> <li>Calculate durations of time</li> <li>Measure the perimeter of simple shapes</li> <li>Add and subtract amounts of money (including giving change)</li> </ul>	<ul> <li>Convert between different units of measure [for example, kilometre to metre; hour to minute]</li> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> <li>Find the area of shapes, made up of rectangles, by counting squares</li> <li>Estimate, compare and calculate different measures, including money in pounds and pence</li> <li>Read, write and convert time between analogue and digital 12- and 24-hour clocks</li> </ul>



<ul> <li>Find different combinations of coins that equal the same amounts of money</li> <li>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</li> <li>Compare and sequence intervals of time</li> <li>Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times</li> <li>Know the number of minutes in an hour and the number of hours in a day</li> </ul>	Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days      Compare and classify geometric shapes,
the number of nours in a day	Compare and classify geometric shapes,
Geometry  • Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line • Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] • Compare and sort common 2-D and 3-D shapes and everyday objects • Order and arrange combinations of mathematical objects in patterns and sequences • Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and threequarter turns (clockwise)	<ul> <li>including quadrilaterals and triangles, based on their properties and sizes</li> <li>Identify acute and obtuse angles and compare and order angles up to 2 right angles by size</li> <li>Identify lines of symmetry in 2-D shapes presented in different orientations</li> <li>Complete a simple symmetric figure with respect to a specific line of symmetry</li> <li>Describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>Describe movements between positions as translations of a given unit to the left/right and up/down</li> <li>Plot specified points and draw sides to complete a given polygon</li> </ul>
Statistics  • Interpret and construct simple pictograms, tally charts, block diagrams and tables  • Interpret and construct simple pictograms, more?' and 'How many fewer?') using information presented in scaled bar charts, pictograms and tables	<ul> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li> </ul>



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Ask and answer simple questions by counting	Solve comparison, sum and difference
the number of objects in each category and	problems using information presented in bar
sorting the categories by quantity	charts, pictograms, tables and other graphs
Ask-and-answer questions about totalling and	
comparing categorical data	



#### Year 4 Overview 2022-23

Week	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<u>1</u>	<u>Place Value</u>	Number – Multiplication and Division B	Number – Decimals B
<u>2</u>	<u>Place Value</u>	Number – Multiplication and Division B	Number – Decimals B
<u>3</u>	<u>Place Value</u>	Number – Multiplication and Division B	<u>Measurement – Money</u>
<u>4</u>	<u>Place Value</u>	Measurement – Length and Perimeter	<u>Measurement – Money</u>
<u>5</u>	Addition and Subtraction	Measurement – Length and Perimeter	<u>Measurement – Time</u>
<u>6</u>	Addition and Subtraction	<u>Fractions</u>	<u>Measurement – Time</u>
<u>7</u>	Addition and Subtraction	<u>Fractions</u>	<u>Consolidation</u>
<u>8</u>	<u>Area</u>	<u>Fractions</u>	Geometry – Properties of shape
<u>9</u>	Multiplication and Division A	<u>Fractions</u>	Geometry – Properties of shape
<u>10</u>	Multiplication and Division A	<u>Decimals A</u>	<u>Statistics</u>
<u>11</u>	Multiplication and Division A	<u>Decimals A</u>	Position and Direction
<u>12</u>	Consolidation and Assessment	<u>Decimals A</u>	Position and Direction

Area of Maths	<u>Year Before</u>	<u>Year At</u>	<u>Year After</u>
Number	<ul> <li>Count in 4s, 8s, 50s and 100s from any number</li> <li>Read and write numbers up to 100 in numbers and words</li> <li>Compare and order numbers up to 1000</li> <li>Recognise place value of three-digit numbers</li> <li>Find ten more of ten less than a given number</li> <li>Solving problems that involve all of the above</li> </ul>	<ul> <li>Count in multiples of 6, 7, 9, 25 and 1,000</li> <li>Find 1,000 more or less than a given number</li> <li>Count backwards through 0 to include negative numbers</li> <li>Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)</li> <li>Order and compare numbers beyond 1,000</li> <li>Identify, represent and estimate numbers using different representations</li> <li>Round any number to the nearest 10, 100 or 1,000</li> <li>Solve number and practical problems that involve all of the above and with increasingly large positive number</li> </ul>	<ul> <li>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</li> <li>Read, write, order and compare numbers to at least 1,000,000</li> <li>Determine the value of each digit up to 1,000, 000</li> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0</li> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000</li> <li>Solve number problems &amp; practical problems involving ALL of the above</li> <li>Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals</li> </ul>
Addition and Subtraction	<ul> <li>Add and subtract numbers mentally including a three digit number and ones, a three digit</li> </ul>	<ul> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> </ul>	<ul> <li>Add and subtract whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction)</li> </ul>



number and tens, a three digit number and hundreds  • Add and subtract numbers with up to three-digits using (when needed) an efficient written method  • Estimate the answers to a calculation and use the inverse to check answers  • Solve missing number problems using number facts, place value & more complex addition & subtraction	<ul> <li>Estimate and use inverse operations to check answers to a calculation</li> <li>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>	<ul> <li>Add and subtract numbers mentally with increasingly large numbers</li> <li>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> </ul>
<ul> <li>Recall and use multiplication and division facts for the 3, 4, and 8 multiplication tables</li> <li>Multiply and divide numbers mentally and using an efficient written method (up to TU x U and TU ÷ U)</li> <li>Solve problems, including missing number problems, involving multiplication and division, including scaling problems</li> </ul>	<ul> <li>Recall multiplication and division facts for multiplication tables up to 12 × 12</li> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers</li> <li>Recognise and use factor pairs and commutativity in mental calculations</li> <li>Multiply 2-digit and 3-digit numbers by a one-digit number using formal written layout</li> <li>Divide two-digit numbers by a single digit (leading to short division)</li> <li>Solve problems involving multiplying and division, including scaling problems</li> <li>Solve problems involving division including questions such as 3 cakes shared equally between 10 children.</li> </ul>	<ul> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers</li> <li>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers: establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers</li> <li>Multiply and divide numbers mentally, drawing upon known facts</li> <li>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division &amp; interpret remainders appropriately for the context</li> <li>Multiply &amp; divide whole numbers &amp; those involving decimals by 10, 100 &amp; 1,000</li> <li>Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)</li> <li>Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes</li> </ul>



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			•	Solve multi-step problems involving
				combinations of all four operations including
				understanding the meaning of the equals sign
			•	Solve problems involving multiplication and
				division, including scaling by simple fractions
				and problems involving simple rates
Fractions	<ul> <li>Count up and down in tenths</li> <li>Understand what tenths mean</li> <li>Recognise, find and write fractions of a set of objects e.g. ¼ of 12 pencils or ¾ of 20 shells</li> <li>Recognise and show, using diagrams, equivalent fractions</li> <li>Compare and order fractions with the same denominator</li> <li>Add and subtract fractions with the same denominator within one whole e.g. 5/7 + 1/7 = 6/7</li> <li>Solve problems that involve all of the above</li> </ul>	<ul> <li>Recognise and show, using diagrams, families of common equivalent fractions</li> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10</li> <li>Solve problems involving increasingly harder fractions to calculate quantities, fractions to divide quantities, including non-unit fractions where the answer is a whole number</li> <li>Add and subtract fractions with the same denominator</li> <li>Recognise and write decimal equivalents of any number of tenths or hundreds</li> <li>Recognise and write decimal equivalents to 1/4, 1/2, 3/4</li> <li>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li> <li>Round decimals with 1 decimal place to the</li> </ul>	•	and problems involving simple rates  Compare and order fractions whose denominators are all multiples of the same number  Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths  Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]  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 [for example, 0.71 = 71/100]  Recognise/use thousandths & relate them to
		<ul> <li>Round decimals with 1 decimal place to the nearest whole number</li> <li>Compare numbers with the same number of decimal places up to 2 decimal places</li> <li>Solve simple measure and money problems involving fractions and decimals to 2 decimal places</li> </ul>	•	tenths, hundredths & decimal equivalents Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place Read, write, order and compare numbers with up to 3 decimal places Solve problems involving number up to 3 decimal places Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a



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Measurement	Compare and measure: lengths, masses, volumes/capacities	<ul> <li>Convert between different units of measure [for example, kilometre to metre; hour to</li> </ul>	•	fraction with denominator 100, and as a decimal fraction Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25 Convert between different units of metric measure [for example, kilometre and metre;
	<ul> <li>Tell and write the time on an analogue clock (12 and 24 hour)</li> <li>Know and use facts about time e.g. 60 minutes in an hour, 365 days in a year/366 in a leap year and vocabulary about time e.g. am/pm</li> <li>Calculate durations of time</li> <li>Measure the perimeter of simple shapes</li> <li>Add and subtract amounts of money (including giving change)</li> <li>Add and subtract in the context of length, mass and capacity/volume</li> </ul>	<ul> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> <li>Find the area of shapes, made up of rectangles, by counting squares</li> <li>Estimate, compare and calculate different measures, including money in pounds and pence</li> <li>Read, write and convert time between analogue and digital 12- and 24-hour clocks</li> <li>Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days</li> </ul>	•	centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]  Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints  Measure & calculate the perimeter of composite rectilinear shapes in centimetres & metres  Calculate & compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) & square metres (m²), & estimate the area of irregular shapes  Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]  Solve problems involving converting between units of time  Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling
Geometry	<ul> <li>Identify horizontal, vertical, perpendicular an parallel lines in shapes</li> <li>Draw 2-D shapes using given dimensions and angles</li> <li>Make and describe 3-D shapes</li> </ul>	<ul> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>Identify acute and obtuse angles and compare and order angles up to 2 right angles by size</li> </ul>	•	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles



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	Recognise angles within a shape as a right angle, less than a right angle or greater than a right angle and as an angle of turn	<ul> <li>Identify lines of symmetry in 2-D shapes presented in different orientations</li> <li>Complete a simple symmetric figure with respect to a specific line of symmetry</li> <li>Describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>Describe movements between positions as translations of a given unit to the left/right and up/down</li> <li>Plot specified points and draw sides to complete a given polygon</li> </ul>	<ul> <li>Draw given angles, and measure them in degrees (°)</li> <li>Identify:</li> <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> <li>other multiples of 90°</li> <li>use the properties of rectangles to deduce related facts and find missing lengths and angles</li> <li>distinguish between regular and irregular polygons based on reasoning about equal sides and angles</li> <li>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</li> </ul>
Statistics	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	<ul> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul>	<ul> <li>Solve comparison, sum and difference problems using information presented in a line graph</li> <li>Complete, read and interpret information in tables, including timetables</li> </ul>

#### Year 5 Overview 2022-23

<u>Week</u>	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<u>1</u>	<u>Place Value</u>	Multiplication and Division B	<u>Shape</u>



<u>2</u>	<u>Place Value</u>	Multiplication and Division B	<u>Shape</u>
<u>3</u>	<u>Place Value</u>	Multiplication and Division B	<u>Shape</u>
<u>4</u>	Addition and Subtraction	<u>Fractions B</u>	Position and Direction
<u>5</u>	Addition and Subtraction	<u>Fractions B</u>	Position and Direction
<u>6</u>	Multiplication and Division A	Decimals and Percentages	<u>Decimals</u>
<u>7</u>	Multiplication and Division A	Decimals and Percentages	<u>Decimals</u>
<u>8</u>	Multiplication and Division A	Decimals and Percentages	<u>Decimals</u>
<u>9</u>	<u>Fractions A</u>	Perimeter and Area	Negative Numbers
<u>10</u>	<u>Fractions A</u>	Perimeter and Area	Measuring – converting units
<u>11</u>	<u>Fractions A</u>	Converting Units	Measuring – Converting units
<u>12</u>	<u>Fractions A</u>	Converting Units	Measuring volume

Area of Maths	<u>Year Before</u>	<u>Year At</u>	<u>Year After</u>
Number	<ul> <li>Count in multiples of 6, 7, 9, 25 and 1,000</li> <li>Find 1,000 more or less than a given number</li> <li>Count backwards through 0 to include negative numbers</li> <li>Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)</li> <li>Order and compare numbers beyond 1,000</li> <li>Identify, represent and estimate numbers using different representations</li> <li>Round any number to the nearest 10, 100 or 1,000</li> <li>Solve number and practical problems that involve all of the above and with increasingly large positive number</li> </ul>	<ul> <li>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</li> <li>Read, write, order and compare numbers to at least 1,000,000</li> <li>Determine the value of each digit up to 1,000, 000</li> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0</li> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000</li> <li>Solve number problems &amp; practical problems involving ALL of the above</li> <li>Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals</li> </ul>	<ul> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit</li> <li>Round any whole number to a required degree of accuracy</li> <li>Use negative numbers in context and calculate intervals across zero</li> <li>Solve number and practical problems that involve all of the above</li> </ul>
Addition and Subtraction	<ul> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>Estimate and use inverse operations to check answers to a calculation</li> </ul>	<ul> <li>Add and subtract whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction)</li> <li>Add and subtract numbers mentally with increasingly large numbers</li> </ul>	<ul> <li>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <li>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders,</li> </ul>



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	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	<ul> <li>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> </ul>	•	fractions, or by rounding, as appropriate for the context Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context Perform mental calculations, including with mixed operations and large numbers Identify common factors, common multiples and prime numbers Use their knowledge of the order of operations to carry out calculations involving the 4 operations Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
Multiplication and Division	<ul> <li>Recall multiplication and division facts for multiplication tables up to 12 × 12</li> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers</li> <li>Recognise and use factor pairs and commutativity in mental calculations</li> <li>Multiply 2-digit and 3-digit numbers by a one-digit number using formal written layout</li> <li>Divide two-digit numbers by a single digit (leading to short division)</li> <li>Solve problems involving multiplying and division, including scaling problems</li> </ul>	<ul> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers</li> <li>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers: establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers</li> <li>Multiply and divide numbers mentally, drawing upon known facts</li> </ul>		



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Fractions	Solve problems involving division including questions such as 3 cakes shared equally between 10 children.  Recognise and show, using diagrams, families	<ul> <li>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division &amp; interpret remainders appropriately for the context</li> <li>Multiply &amp; divide whole numbers &amp; those involving decimals by 10, 100 &amp; 1,000</li> <li>Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)</li> <li>Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes</li> <li>Solve multi-step problems involving combinations of all four operations including understanding the meaning of the equals sign</li> <li>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates (4a+)</li> <li>Compare and order fractions whose</li> </ul>	•	Use common factors to simplify fractions; use
Fractions	<ul> <li>Recognise and snow, using diagrams, families of common equivalent fractions</li> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10</li> <li>Solve problems involving increasingly harder fractions to calculate quantities, fractions to divide quantities, including non-unit fractions where the answer is a whole number</li> <li>Add and subtract fractions with the same denominator</li> <li>Recognise and write decimal equivalents of any number of tenths or hundreds</li> <li>Recognise and write decimal equivalents to 1/4, 1/2, 3/4</li> <li>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li> </ul>	<ul> <li>compare and order fractions whose denominators are all multiples of the same number</li> <li>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</li> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements &gt; 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]</li> <li>Add and subtract fractions with the same denominator, and denominators that are multiples of the same number</li> <li>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</li> <li>Read and write decimal numbers as fractions [for example, 0.71 = 71/100]</li> </ul>		common multiples to express fractions; use common multiples to express fractions in the same denomination  Compare and order fractions, including fractions >1  Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions  Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1/4 \times 1/2 = 1/8$ ]  Divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$ ]  Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8] Identify the value of each digit in numbers given to 3 decimal places and multiply and



	Round decimals with 1 decimal place to the	Recognise/use thousandths & relate them to	~	divide numbers by 10, 100 and 1,000 giving
	nearest whole number	tenths, hundredths & decimal equivalents		answers up to 3 decimal places
	<ul> <li>Compare numbers with the same number of decimal places up to 2 decimal places</li> <li>Solve simple measure and money problems involving fractions and decimals to 2 decimal places</li> </ul>	<ul> <li>Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place</li> <li>Read, write, order and compare numbers with up to 3 decimal places</li> <li>Solve problems involving number up to 3 decimal places</li> <li>Recognise the per cent symbol (%) and</li> </ul>	•	Multiply one-digit numbers with up to 2 decimal places by whole numbers Use written division methods in cases where the answer has up to 2 decimal places
		<ul> <li>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>Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25</li> </ul>		
Ratio and Proportion			•	Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts  Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison  Solve problems involving similar shapes where the scale factor is known or can be found  Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Algebra			•	Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically



			•	Find pairs of numbers that satisfy an equation with 2 unknowns Enumerate possibilities of combinations of 2 variables
Measurement	<ul> <li>Convert between different units of measure [for example, kilometre to metre; hour to minute]</li> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> <li>Find the area of shapes, made up of rectangles, by counting squares</li> <li>Estimate, compare and calculate different measures, including money in pounds and pence</li> <li>Read, write and convert time between analogue and digital 12- and 24-hour clocks</li> <li>Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days</li> </ul>	<ul> <li>Convert between different units of metric measure [for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]</li> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</li> <li>Measure &amp; calculate the perimeter of composite rectilinear shapes in centimetres &amp; metres</li> <li>Calculate &amp; compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) &amp; square metres (m²), &amp; estimate the area of irregular shapes</li> <li>Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]</li> <li>Solve problems involving converting between units of time</li> <li>Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling</li> </ul>	•	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate  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 up to 3 decimal places  Convert between miles and kilometres  Recognise that shapes with the same areas can have different perimeters and vice versa  Recognise when it is possible to use formulae for area and volume of shapes  Calculate the area of parallelograms and triangles  Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]
Geometry	<ul> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>Identify acute and obtuse angles and compare and order angles up to 2 right angles by size</li> </ul>	<ul> <li>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</li> <li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> </ul>	•	Draw 2-D shapes using given dimensions and angles Recognise, describe and build simple 3-D shapes, including making nets Compare and classify geometric shapes based on their properties and sizes and find



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	<ul> <li>Identify lines of symmetry in 2-D shapes presented in different orientations</li> <li>Complete a simple symmetric figure with respect to a specific line of symmetry</li> <li>Describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>Describe movements between positions as translations of a given unit to the left/right and up/down</li> <li>Plot specified points and draw sides to complete a given polygon</li> </ul>	<ul> <li>Draw given angles, and measure them in degrees (°)</li> <li>Identify:</li> <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> <li>other multiples of 90°</li> <li>use the properties of rectangles to deduce related facts and find missing lengths and angles</li> <li>distinguish between regular and irregular polygons based on reasoning about equal sides and angles</li> <li>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</li> </ul>	unknown angles in any triangles, quadrilaterals, and regular polygons Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles Describe positions on the full coordinate grid (all 4 quadrants)  Draw and translate simple shapes on the coordinate plane, and reflect them in the axes
Statistics	<ul> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul>	<ul> <li>Solve comparison, sum and difference problems using information presented in a line graph</li> <li>Complete, read and interpret information in tables, including timetables</li> </ul>	Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average

#### Year 6 2022-23

Week	<u>Autumn</u>	Spring	<u>Summer</u>
<u>1</u>	<u>Place Value</u>	<u>Ratio</u>	<u>Shape</u>
<u>2</u>	<u>Place Value</u>	<u>Ratio</u>	<u>Shape</u>
<u>3</u>	Addition, subtraction, multiplication and division	<u>Algebra</u>	Position and Direction



<u>4</u>	Addition, subtraction, multiplication and division	<u>Algebra</u>	
<u>5</u>	Addition, subtraction, multiplication and division	<u>Decimals</u>	
<u>6</u>	Addition, subtraction, multiplication and division	<u>Decimals</u>	Themed projects, consolidation and problem solving.
<u>7</u>	Addition, subtraction, multiplication and division	Fractions, decimals and percentages	
<u>8</u>	<u>Fractions A</u>	Fractions, decimals and percentages	
<u>9</u>	<u>Fractions A</u>	Area, perimeter and volume	
<u>10</u>	<u>Fractions B</u>	Area, perimeter and volume	
<u>11</u>	<u>Fractions B</u>	<u>Statistics</u>	
<u>12</u>	Converting units	<u>Statistics</u>	

Area of Maths	<u>Year Before</u>	<u>Year At</u>	<u>Year After</u>
Number	<ul> <li>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</li> <li>Read, write, order and compare numbers to at least 1,000,000</li> <li>Determine the value of each digit up to 1,000, 000</li> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0</li> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000</li> <li>Solve number problems &amp; practical problems involving ALL of the above</li> <li>Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals</li> </ul>	<ul> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit</li> <li>Round any whole number to a required degree of accuracy</li> <li>Use negative numbers in context and calculate intervals across zero</li> <li>Solve number and practical problems that involve all of the above</li> </ul>	
Addition and Subtraction	<ul> <li>Add and subtract whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction)</li> <li>Add and subtract numbers mentally with increasingly large numbers</li> </ul>	<ul> <li>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <li>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders,</li> </ul>	

Inspiring Learning, Nurturing Wholeness
Trust – Respect – Perseverance – Hope – Compassion – Wisdom



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	<ul> <li>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> </ul>	fractions, or by rounding, as appropriate for the context  • Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context  • Perform mental calculations, including with mixed operations and large numbers  • Identify common factors, common multiples and prime numbers  • Use their knowledge of the order of operations to carry out calculations involving the 4 operations  • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why  • Solve problems involving addition, subtraction, multiplication and division  • Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy	Other of Brigania ( naca) timal y concer
Multiplication and Division	<ul> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers</li> <li>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers: establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers</li> <li>Multiply and divide numbers mentally, drawing upon known facts</li> </ul>	As above	



			Church of England (Alded) Frimary School
Fractions	<ul> <li>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division &amp; interpret remainders appropriately for the context</li> <li>Multiply &amp; divide whole numbers &amp; those involving decimals by 10, 100 &amp; 1,000</li> <li>Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)</li> <li>Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes</li> <li>Solve multi-step problems involving combinations of all four operations including understanding the meaning of the equals sign</li> <li>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</li> <li>Compare and order fractions whose</li> </ul>	<ul> <li>Use common factors to simplify fractions; use</li> </ul>	Church of England (Added) Finhary School
	<ul> <li>denominators are all multiples of the same number</li> <li>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</li> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements &gt; 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]</li> <li>Add and subtract fractions with the same denominator, and denominators that are multiples of the same number</li> <li>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</li> <li>Read and write decimal numbers as fractions [for example, 0.71 = 71/100]</li> </ul>	<ul> <li>common multiples to express fractions in the same denomination</li> <li>Compare and order fractions, including fractions &gt;1</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 × 1/2 = 1/8]</li> <li>Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 =1/6]</li> <li>Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]</li> <li>Identify the value of each digit in numbers given to 3 decimal places and multiply and</li> </ul>	



			Church of England (Aided) Primary School
	<ul> <li>Recognise/use thousandths &amp; relate them to tenths, hundredths &amp; decimal equivalents</li> <li>Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place</li> <li>Read, write, order and compare numbers with up to 3 decimal places</li> <li>Solve problems involving number up to 3 decimal places</li> <li>Recognise the per cent 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>Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25</li> </ul>	divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places  • Multiply one-digit numbers with up to 2 decimal places by whole numbers  • Use written division methods in cases where the answer has up to 2 decimal places	
Ratio and	'	Solve problems involving the relative sizes of 2	
Proportion		quantities where missing values can be found by using integer multiplication and division facts  • Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison  • Solve problems involving similar shapes where the scale factor is known or can be found  • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	
Algebra		<ul> <li>Use simple formulae</li> <li>Generate and describe linear number sequences</li> <li>Express missing number problems algebraically</li> </ul>	



			land (Alded) Frimary School
Massurament	Convert between different units of metric	<ul> <li>Find pairs of numbers that satisfy an equation with 2 unknowns</li> <li>Enumerate possibilities of combinations of 2 variables</li> </ul>	
Measurement	<ul> <li>measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]</li> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</li> <li>Measure &amp; calculate the perimeter of composite rectilinear shapes in centimetres &amp; metres</li> <li>Calculate &amp; compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) &amp; square metres (m²), &amp; estimate the area of irregular shapes</li> <li>Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]</li> <li>Solve problems involving converting between units of time</li> <li>Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling</li> </ul>	<ul> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate</li> <li>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 up to 3 decimal places</li> <li>Convert between miles and kilometres</li> <li>Recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>Recognise when it is possible to use formulae for area and volume of shapes</li> <li>Calculate the area of parallelograms and triangles</li> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]</li> </ul>	
Geometry	<ul> <li>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</li> <li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> </ul>	<ul> <li>Draw 2-D shapes using given dimensions and angles</li> <li>Recognise, describe and build simple 3-D shapes, including making nets</li> <li>Compare and classify geometric shapes based on their properties and sizes and find</li> </ul>	



			Church of England (Added) I finiary School
	<ul> <li>Draw given angles, and measure them in degrees (°)</li> <li>Identify:</li> <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> <li>other multiples of 90°</li> <li>use the properties of rectangles to deduce related facts and find missing lengths and angles</li> <li>distinguish between regular and irregular polygons based on reasoning about equal sides and angles</li> <li>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</li> </ul>	<ul> <li>unknown angles in any triangles, quadrilaterals, and regular polygons</li> <li>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</li> <li>Describe positions on the full coordinate grid (all 4 quadrants)</li> <li>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes</li> </ul>	
Statistics	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs  Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	<ul> <li>Solve comparison, sum and difference problems using information presented in a line graph</li> <li>Complete, read and interpret information in tables, including timetables</li> </ul>	<ul> <li>Interpret and construct pie charts and line graphs and use these to solve problems</li> <li>Calculate and interpret the mean as an average</li> </ul>