Mathematics



Maths at Hyde Park Schools is designed to be an inclusive subject where all children feel safe, empowered to learn, and suitably challenged. Our intention is to build upon the children's learning from EYFS through to Key Stage Two and prepare all our children for the next phase of their mathematical journey in secondary school.

We have designed our Maths curriculum to provide the best learning opportunities for all our children and allow them to expand their curiosity. The curriculum we deliver is aligned to the National Curriculum and incorporates the models and ideas of teaching Maths for mastery, whilst incorporating Programmes of Studies that meet the needs of our children as identified by staff. These include recognising barriers to learning for children who are disadvantaged or face adverse childhood experiences as well as developing skills that enable children to progress their knowledge and use maths to solve problems. Our Maths curriculum is ambitious and designed to give all learners the knowledge and cultural capital they need to succeed in life.

The Maths curriculum is coherently planned and sequenced to provide our learners with a steady progression of the knowledge and skills needed for future learning and the next phase in their education. We understand that a child's ability to learn is based on gaining knowledge and building on prior knowledge, as well as the ability to use and apply any embedded skills adeptly and competently.

Our Maths curriculum is designed to marry key components such as number facts and mathematical thinking to ensure progress and a greater depth of understanding that leads to mastery and fluency. We ensure that children receive a broad and balanced curriculum, and that learning is relevant, exciting, aspirational, and challenging. We know that numerical competency is vital in all learning and increases children's life chances. Which enables them to have more control over their future lives and use Maths in a real-life context.

The children are encouraged to believe in themselves as mathematicians. We have the same ambitions for all learners and believe that they can all attain a good level of mathematical fluency. The curriculum is designed to be inspiring across the school and this allows children to take control of their own learning journey. This is achieved through careful consideration of individual needs, and, in some cases, individual programmes of study based around the needs of the children.

All learners study the full Maths curriculum, which is broad and balanced, and which aims to provide our children with a wide range of experiences. We have further enhanced our programme using the school's core values which are 'lived' daily through our relationships and school ethos.

#### Implementation

High quality CPD based on research and learning from best practise gives all teachers and teaching assistants the ability to implement the curriculum fully. The Maths co-ordinators from both schools regularly run staff training and monitoring to ensure that the curriculum is skilfully delivered with the greatest impact. The Maths co-ordinator receives training from the NCETM CODE Maths Hub through regular work groups as well as engaging in additional NCETM training and research projects.

Vocabulary is taught explicitly and effectively in Maths and displayed in the classroom. Learning is made accessible to all, by clear coverage of prior knowledge and learning and, within each lesson, consistent scaffolding, clear presentation of new learning, opportunities to share ideas and strategies and timely feedback. Manipulatives and visual representations are used to expose the structure of the Mathematics being taught and identify patterns and links within different areas of Maths. Opportunities for depth are provided through questioning and reasoning when teaching. This can be during whole class teaching or as an additional task in a Maths lesson.

Formative assessment is used routinely within lessons, to address children's misconceptions. Summative assessments are used at the end of a block of work and termly to track how pupils are progressing against the curriculum. Lessons allow pupils to practise our core values within their learning being brave, curious, optimistic, kind, inclusive, enterprising, and confident learners.

The curriculum provides children with deep learning experiences that are successively built on across the years, providing children with a sequential understanding of how maths ideas develop with understanding. Repetition also plays an important role in securing knowledge and fluency. Therefore, knowledge is often revisited in successive years to allow knowledge to become sticky. There is also repetition within in year for the number facts and previously taught strategies. The curriculum provides diverse and rich opportunities from which children can learn and develop a range of transferable skills, such as in data handling and science. Opportunities are given to show Maths in a real-life context which enables the children to Maths as a skill for life.

### <u>Impact</u>

Pupils leave Hyde Park Schools with a secure mastery of mathematical concepts and a fluency of number facts. Through the skills that they have learnt they can apply this knowledge to real life situations. Additionally, they can use Maths to aid their learning and make links in other curriculum subjects They enjoy Maths and are able to use it to improve their adult lives.

We aim for all our children to leave Hyde Park Schools; brave, curious, optimistic, kind, enterprising, inclusive and confident Mathematicians, with the motivation and passion to continue to learn and empowered and enabled to make the most of their lives.

## **EYFS** Progression

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key facts	Recognise make and fin	nd all numbers up to 5	Recognise and find all r	numbers up to 10	Recognise make and fir	nd all numbers up to 10
	including written as nu	mbers	written as numbers		written as numbers	
			Know number bonds to 5		Recall doubles up to 5+5	
Strand	Number	Number	Number	Number	Number	Number
	(Getting to know you,	Measure, shape, and	Measure, shape, and	Measure, shape, and	Measure, shape, and	Measure, shape, and
	baseline assessments	spatial thinking.	spatial thinking.	spatial thinking.	spatial thinking.	spatial thinking.
	&	(It's me 123	Time	pattern	(To 20 and beyond	(Find my pattern
	Just like me)	&	(Growing 6,7,8)	(Building 9 and 10	&	&
		Light and dark & Alive		&	First then now)	On the move)
		in 5)		To 20 and beyond)		
Vocabulary	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Number</u>	Review/consolidate
	Count, order, many,	Represent, show,	Zero, quantity,	Number bond, number	Add, adding, subtract,	understanding of and use
	Amount, quantity,	record, compare, more,	addition, subtraction,	pair, teens, Tens, 10s,	subtracting, take away,	of previously taught
	most, more, few, fewer,	, most, few, fewer, part,	add, adding,	ones, 1s,	altogether, first, then,	vocabulary.
	equal, repeat, first,	whole, first, one less,	subtracting, take away,	representation, predict,	now, missing number,	
	second, third, fourth,	one more,	compose, part, whole,	tens frame, match.	unknown, double,	
	fifth, add, take away,		altogether,		even, odd, group,	
	altogether, more than,	<u>Shape</u>		<u>Shape</u>	share, equal, fair.	
	fewer than, whole, part	circle, triangle, curved,	Measure	2D, circle, square,		
		straight, side, corner	time, week, month	rectangle, hexagon, 3D,		
	<u>Measure</u>	2D	January, February,	sphere, pyramid,		
	heavy, light, heavier,		March, April, May,	cylinder, cube, cuboid.		
	lighter, full, empty, half	<u>Measure</u>	June, July, August,			
	full, nearly full, nearly	Monday, Tuesday,	September, October,			
	empty, capacity. mass,	Wednesday, Thursday,	November, December,			
	holds,	Friday, Saturday,	height, tall, short,			
		Sunday, day, night,	tallest, shortest, length,	,		
	<u>Shape</u>	sort, group. sequence,	long, short, longest,			
	pattern, sort, copy,	day, night.	shortest			
	continue, repeated					
	pattern, mistake.					
	position, under, over,					

Skills and knowledge	on top, above, next to, besides, in front of, behind, circle, triangle, curved, straight, side, corner 2D <u>Number</u>	Number	Number
	<ul> <li>To know the stable order of counting (numbers always said in the same order).</li> <li>To count one to one (one to one correspondence).</li> <li>To know the ordinal principle (the last number said will be the total amount).</li> <li>To know the abstraction principle (anything can be counted even things that you cannot touch).</li> <li>To know that that counting order is irrelevant (the order you count objects in is irrelevant the amount will stay the same.</li> <li>To compare numbers up to 3</li> <li>To subitise numbers up to 3.</li> <li>To know different ways of composing numbers up to 3</li> <li>To compare numbers to 5.</li> <li>To know different way to compose 4 and 5.</li> <li>To match and sort amounts within 5.</li> <li>To count objects up to 5.</li> <li>To count objects up to 5.</li> </ul>	<ul> <li>To count objects to 10.</li> <li>To recognise numbers up to 10</li> <li>To subitise numbers up to 5</li> <li>To know one more and one less for numbers up to 10.</li> <li>To begin to know bonds to 10.</li> <li>To combine two groups and find out how many altogether.</li> <li>To know different ways of composing 6, 7 and 8.</li> <li>To find pairs within a number</li> <li>To combine two groups and find out how many altogether.</li> <li>To know that some numbers are odd, and some are even.</li> <li>Count to and back from 20.</li> <li>Start counting forwards and backwards from different points within 20.</li> <li>Recognise different representations of numbers.</li> <li>Build numbers up to 20 using manipulatives.</li> </ul> Measure <ul> <li>To compare length.</li> <li>To corder the months of the year</li> <li>To understand weeks are in a month</li> </ul>	<ul> <li>To add two groups togetner using First, then now structure.</li> <li>To subtract one group from another using First then now structure.</li> <li>How many did I subtract (this is the precursor to missing numbers)</li> <li>To solve problems using addition and subtraction (based on first then now)</li> <li>To find patterns and relationships between numbers</li> <li>To use counting to solve problems.</li> <li>To add two groups of objects together.</li> <li>To subtract a number from a group of objects.</li> <li>To double a number up to 5+5.</li> <li>To work out how many have been added to a given number (the precursor to missing number sentences)</li> <li>To quickly subitise numbers up to 5</li> <li>To count to 20 and back from 20 starting in a different place.</li> <li>To quickly recall number bonds up to 5.</li> <li>To begin to recall number bonds to 10</li> </ul>
	numbers up to 5	Io understand months are in a year	To make maps of familiar places.

Measure	To use words like longer, shorter, ta	aller
To compare mass.	Shape when describing measurement.	
<ul> <li>Measure <ul> <li>To compare mass.</li> <li>To compare capacity.</li> <li>To sequence events into day and night.</li> <li>To know the days of the week.</li> </ul> </li> <li>Shape <ul> <li>To recognise shapes with 4 sides and name some (square and rectangle)</li> <li>To know and recognise circles and triangles</li> <li>To explore simple patterns (sequence of 2)</li> <li>To use simple positional language.</li> </ul> </li> </ul>	<ul> <li>To use words like longer, shorter, ta when describing measurement.</li> <li>To name simple 3D shapes (cube, cuboid, sphere, cylinder, pyramid)</li> <li>To describe simple 3D shapes.</li> <li>To sort simple 3D shapes</li> <li>To recognise and make simple repeating patterns. (a sequence of 3)</li> <li>Match and make different shapes using manipulatives (geoboards, numicon, 2D shapes, 3D shapes unifix cubes)</li> <li>To reason about making new shap from existing shapes (how many</li> </ul>	new de bes
	<ul> <li>different shapes can you make usin two rectangles or two right angle triangles)</li> <li>To find patterns and relationships between shapes.</li> </ul>	ng

# **Year 1 Progression**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Key facts	To rapidly recall number	bonds for each number to	To read and write numbers to	20 in numbers and	To read and write nu	o read and write numbers to 50 in numbers	
	10.		words.		and words.		
	To know the number bon	ds to 20 (13+7=20).	To count on and back to 50.		To count on and back to 100.		
	To read numbers to 20 in	numbers and words.	To read numbers to 50 in numerals and words.		To read numbers to	100 in numerals and	
					words.		
					To rapidly recall the	number bonds to 20.	
Strand	Place Value	Subtraction within 10	Addition and	Place Value to 50	Multiplication	Time	
			subtraction within 20		and Division		

Vaaabularii	Count cont manua			Count cont mount		
vocabulary	count, sort, group,	subtract, take away equals,	Add, subtract, equals, number	count, sort, group,	initially, pair, twice,	Day, week, month,
	overossion fewer	every sentence,	whole more difference	overaggion fower	equal, unequal,	April May Jupa July
	expression, rewer,	difference	commutative tons frame	greater equal loss than	array row column	April, May, Julie, July,
	greater, equal, less than,	unierence.		greater, equal, less than,	array, row, column.	August, September,
	more than, equal, <, =, >,		tens ones.	more than, equal, <, =, >,		October, November,
	rewest, smallest,			rewest, smallest, greatest,		December, first, then,
	greatest, representation,			representation, prove,		next, morning, evening.
01.111	prove, check.			спеск.		
Skills and	<ul> <li>To count, read</li> </ul>	To use a part whole	To understand the	• To count, read	To count	To sequence
knowledge	and write,	model to explain	commutative nature	and write,	fluently in	events across a
	forwards and	mathematical	of addition (including	forwards and	2s, 5s, and	day.
	backwards	expressions	greatest number	backwards	tens.	<ul> <li>To know and</li> </ul>
	numbers to 10	(number	first).	numbers to 50	<ul> <li>To make</li> </ul>	order the days of
	independently	sentences).	To solve worded	independently	and add	the week.
	with the correct	To write and solve	problems using First	with the correct	equal	<ul> <li>To solve problems</li> </ul>
	spelling and	mathematical	then now structure	spelling and	groups.	using their
	formation.	expressions using -	for numbers to 20.	formation.	To use	knowledge of the
	<ul> <li>To know One</li> </ul>	and =.	<ul> <li>To add numbers</li> </ul>	• To count in 2s to	repeated	days of the week.
	more one less	<ul> <li>To rapidly recall</li> </ul>	together using	30.	addition to	<ul> <li>To know and</li> </ul>
	and write as a	number bonds to 10	drawings, tens	To count in tens	solve	sequence the
	mathematical	and begin to use	frames, counting on	to 50.	problems.	months of the
	expression.	this knowledge to	and number line.	<ul> <li>To understand</li> </ul>	• To	year.
	To compare	solve calculations.	<ul> <li>To find and make</li> </ul>	and use tens and	understand	To tell the time to
	numbers using <	<ul> <li>To using drawings</li> </ul>	number bonds	ones to explain	and use	the hour and half
	= > in an	to calculate	(number splits) to	the structure of	array to	hour.
	expression.	subtraction	support addition.	2-digit numbers	solve	To understand
	To know how to	problems (crossing	<ul> <li>To add by making</li> </ul>	for numbers to	problems.	hours minutes
	put numbers on	out)	ten.	50.	To use	and seconds,
	a number line	• To use counting	To know that	To place	grouping	including how
	and use it to	back to solve	subtraction is not	numbers up to 50	and sharing	these relate to
	order numbers.	subtraction	commutative.	on a number	to solve	each other.
	<ul> <li>To compare and</li> </ul>	calculations	To solve worded	line.	problems.	
	order number	(number line).	problems using First	• To know and use	To know	
	independently.	To know and use	then now structure	one more and	doubles up	
		the subtraction fact	for numbers to 20.	one less than	to 10+10.	

		<ul> <li>families for numbers up to 10.</li> <li>To be able to write the addition and subtraction fact families for numbers up to 10.</li> <li>To be able to work out how many more.</li> </ul>	<ul> <li>To subtract numbers using drawings, tens frames, counting on and number line.</li> <li>To find and make number bonds to help subtraction (number splits).</li> <li>To know when to use addition or subtraction to solve a worded problem.</li> </ul>	<ul> <li>numbers up to 50.</li> <li>To compare numbers using &lt; = &gt; in an expression.</li> <li>To order numbers to 50 independently.</li> </ul>	<ul> <li>To use knowledge of doubles to solve problems.</li> <li>To use a number line to solve problems.</li> </ul>	
Strand	Addition within 10.	Place Value to 20	Place Value to 50	Measurement	Fractions	Place Value to 100
				(Length and height)		
Vocabulary	Add, equals, number	Count, sort, group, number	Count, sort, group, number	Compare, long, length,	Whole, half, quarter,	Count, sort, group, number
	sentence, expression,	sentences, expression,	sentences, expression, fewer,	tall, height, measure,	fraction, equal	sentences, expression,
	part-whole, more,	fewer, greater, equal, less	greater, equal, less than,	centimetre, cm, accurate		fewer, greater, equal, less
		than, more than, equal, <, =,	more than, equal, <, =, >,			than, more than, equal, <,
		>, fewest, smallest, greatest,	fewest, smallest, greatest,			=, >, fewest, smallest,
		representation, prove, check	representation, prove, check			greatest, representation,
						prove, check
Skills and	• To use a part	• To count. read and	• To count, read and	To compare	• To	<ul> <li>To count forwards</li> </ul>
Knowledge	whole model to	write, forwards and	write, forwards and	heights and	understand	and backwards to
	explain	backwards numbers	backwards numbers	lengths of 3	that a half	100.
	mathematical	to 20 independently	to 50 independently	objects.	is one of	<ul> <li>To count forwards</li> </ul>
	expressions	with the correct	with the correct	To measure	two equal	and backwards
	(number	spelling and	spelling and	obiects using	parts.	starting at
	sentences).	formation.	formation.	non-standard	• To	different points
	To write and	• To count in 2s to	• To count in 2s to 30.	measurements.	understand	within 100.
	solve	20.	• To count in tens to	To measure	that a	To know one
	mathematical	• To understand and	50.	objects using	quarter is	more and one less
	expressions	use tens and ones	To understand and	standard	one of four	for numbers
	using + and =.	to explain the	use tens and ones to	measurements	equal	within 100.
	<ul> <li>To know and</li> </ul>	structure of 2-digit	explain the structure	(cm).	parts.	To put numbers
	use addition fact	numbers.	of 2-digit numbers	To solve simple		up to 100 on a
	families for		for numbers to 50.	practical		blank number

	<ul> <li>numbers up to 10.</li> <li>To rapidly recall number bonds to 10 and begin to use this knowledge to solve calculations.</li> <li>To use drawings to support addition calculations.</li> <li>To add to numbers together.</li> <li>To be able to work out how many more.</li> </ul>	<ul> <li>To place numbers up to 20 on a number line.</li> <li>To know and use one more and one less than numbers up to 20.</li> <li>To compare numbers using &lt; = &gt; in an expression.</li> <li>To order numbers to 20 independently.</li> </ul>	<ul> <li>To place numbers up to 50 on a number line.</li> <li>To know and use one more and one less than numbers up to 50.</li> <li>To compare numbers using &lt; = &gt; in an expression.</li> <li>To order numbers to 50 independently.</li> </ul>	problems for measurement (order heights and lengths) • To solve simple worded problems for measurement.	<ul> <li>To find a fraction of a shape.</li> <li>To find a fraction of an amount.</li> <li>To find a quarter of a shape.</li> <li>To find a quarter of an amount.</li> <li>To solve simple reasoning problems using their knowledge of half and quarter.</li> </ul>	<ul> <li>line, relative to each other and 100.</li> <li>To use tens and ones as well as a place value grid to expose the structure of numbers up to 100.</li> <li>To partition numbers using a variety of representations.</li> <li>To compare numbers.</li> <li>To order 3 numbers.</li> </ul>
Strand		Shape		Measurement (mass and volume)	Time	Money
Vocabulary		Cube, cuboid, cylinder, pyramid, cone, sphere, triangular prism, rectangle, circle, square, triangle, 2D, 2D, curved, flat, face		Compare, weight, mass, heavy, heavier, light lighter, full, half-full, nearly full, empty, measure, capacity, volume	Day, week, month, January, February, March, April, May, June, July, August, September, October, November, December, first, then, next, morning, evening	Pence, pound, coin, note
Skills and knowledge		<ul> <li>Recognise, name and sort 3D shapes.</li> <li>Describe the faces 3D shapes using</li> </ul>	•	<ul> <li>To compare mass and capacity of 3 objects.</li> <li>To measure objects using</li> </ul>	<ul> <li>To sequence events across a day.</li> </ul>	<ul> <li>To recognise and order coins.</li> <li>To recognise and order notes.</li> </ul>

	names of 2D shapes. • Solve simple reasoning problems involving shape.	non-standard measurements. • To solve simple practical problems for measurement (order objects by mass/capacity) • To solve simple reasoning problems for measurement.	<ul> <li>To know and order the days of the week.</li> <li>To solve problems using their knowledge of the days of the week.</li> <li>To know and sequence the months of the year.</li> <li>To tell the time to the hour and half hour.</li> <li>To understand hours minutes and seconds, including</li> </ul>	<ul> <li>To make given amounts of money.</li> <li>To make the same amount of money in different ways.</li> </ul>
			seconds, including how these relate to each other.	
Strand				Position and Direction
Vocabulary				Left, right, forwards, backwards, half turn, quarter turn, full turn, top, in between, bottom,

			above, below, position, direction
Skills and knowledge			<ul> <li>To know and use left and right, up and down.</li> <li>To describe the position of an object relative to another object.</li> <li>To understand and use half turn,</li> </ul>
			quarter turn and whole turn to solve problems.

# **Year 2 Progression**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key facts	To independently cou	int in 2s, 5s, and 10s.				
	To rapidly recall and ι	use multiplication and				
	division facts for 2, 5	and 10.				
Strand	Place Value	Money	Statistics	Fractions	Worded problems	Position and direction
					(Addition and	
					subtraction)	
Vocabulary	Count, sort, group,	Coins, notes, pounds,	Tally, pictogram, block	Fraction, part, whole,	Add, addition, more,	Left, right, half turn,
-	number sentences,	pence, £, change, total,	diagram, total,	whole, half, quarter,	total, altogether,	quarter turn, full turn,
	expression, fewer,	amount, difference	altogether, more, less,	three-quarter, equal	remaining, difference	clockwise anti-clockwise,
	greater, equal, less than,		difference			rotate

	more than, equal, <, =, >, fewest, smallest, greatest, representation, prove, check					
Skills and knowledge	<ul> <li>To count, read and write, forwards and backwards numbers to 100 independently with the correct spelling and formation.</li> <li>To reliable count objects up to 100 by grouping in tens and ones.</li> <li>To use a variety of representations to illustrate numbers up to 100 (part- whole, base ten tens frames, straws, bead string, bead bar, numicon)</li> <li>To quickly partition numbers.</li> </ul>	<ul> <li>To recognise coins and notes and understand the value relative to each other.</li> <li>To make amounts in coins, notes and mixed coins and notes.</li> <li>To compare amounts including mixed coins and notes.</li> <li>To add amounts including adding mixed amounts including adding mixed amounts.</li> <li>To find the difference between amounts.</li> <li>To calculate change.</li> </ul>	<ul> <li>To recognise use and interpret a tally chart.</li> <li>To recognise use and interpret a pictogram.</li> <li>To use a scale on a pictogram (where one picture represents either, 2, 5 or 10).</li> <li>To recognise use and interpret a block diagram.</li> <li>To use a scale on a block diagram (where one block represents either, 2, 5 or 10).</li> </ul>	<ul> <li>To identify equal parts of a shape.</li> <li>To recognise and find half of a shape or number (including 2- digit numbers).</li> <li>To recognise and find a quarter of a shape or number (including 2- digit numbers).</li> <li>To recognise and find a third of a shape or number (including 2- digit numbers).</li> <li>To recognise and find a third of a shape or number (including 2- digit numbers).</li> <li>To recognise and find thire quarters of a</li> </ul>	<ul> <li>To use knowledge of addition to solve worded problems including 2 step worded problems.</li> <li>To use knowledge of subtraction to solve worded problems including 2 step worded problems.</li> </ul>	<ul> <li>To describe the position of an object.</li> <li>To describe the movement of an object (a route).</li> <li>To understand and use quarter turn, half turn, whole turn clockwise and anti-clockwise.</li> <li>To solve problems involving turns.</li> </ul>

Strand Vocabulary	count in 3s. Addition and subtraction. Add, equals, number sentence, expression, part-whole, more,	Multiplication and Division Multiply, multiple, divide, pair, twice, equal, unequal, array,	Shape 2D, 3D, circle, square, rectangle, quadrilateral, pentagon, octagon,	Measurement (Length and height) Compare, long, length, tall, height, measure, centimetre, cm, metre,	Worded problems (Multiplication and Division) Multiply, divide, groups of, lots of, altogether, remaining, difference	<b>Fractions</b> Whole, half, quarter, three-quarter, third, equal.
	<ul> <li>To know One more one less of numbers up to 100.</li> <li>To compare up to 4 numbers using &lt; = &gt; in an expression.</li> <li>To know how to put numbers up to 100 on a blank number line and use it to order numbers.</li> <li>To compare and order number independently.</li> <li>To count in 2s, 5s and 10s independently.</li> </ul>	<ul> <li>To calculate change as part of a two- step problem.</li> </ul>	<ul> <li>To record data using statistics.</li> <li>•</li> </ul>	<ul> <li>shape or number (including 2- digit numbers).</li> <li>To understand and write unit fractions.</li> <li>To understand and write non- unit fractions (2/3, 3/4).</li> <li>To count in fractions</li> <li>To know that 2/4 is equivalent to 1/2.</li> </ul>		

			cuboid, sphere, triangular prism, sides, vertices, edges, line of symmetry, faces, curved, flat			
Skills and Knowledge	<ul> <li>To know and use the number bonds to 100 for the multiples of ten.</li> <li>To rapidly identify and use number splits to support efficient addition and subtraction.</li> <li>To add a multipl of 10 to a 2-digit number efficiently.</li> <li>To use a place value grid to add and subtract 2- digit numbers, exchanging where necessary.</li> <li>To use a number line to efficiently add and subtract 2-digit numbers (jumping to the nearest 10 etc).</li> <li>To solve reasoning and worded</li> </ul>	<ul> <li>To independently count in 2s, 5s, and 10s.</li> <li>To count in 3s.</li> <li>To know multiplication facts for 2, 5 and 10.</li> <li>To understand and use the x and ÷ symbols.</li> <li>To understand arrays and use them to solve problems.</li> <li>To know that the 2 times table is equivalent to doubling.</li> <li>To understand the relationship between the 2 times table and odd and even numbers.</li> <li>To using sharing and grouping to</li> </ul>	<ul> <li>To recognise common 2D and 3D shapes (see vocabulary).</li> <li>To know the properties of commons 2D and 3D shapes.</li> <li>To recognise a line of symmetry and be able to draw one.</li> <li>To sort shapes by their properties.</li> <li>To make extended repeating patterns including symmetrical ones.</li> </ul>	<ul> <li>To compare heights and lengths of 3 objects using metres and centimetres.</li> <li>To accurately measure objects using standard measurements (m, cm).</li> <li>To solve problems for measurement (which may use any of the four number operations)</li> </ul>	<ul> <li>To use knowledge of multiplication to solve worded problems.</li> <li>To use knowledge of division to solve worded problems.</li> </ul>	<ul> <li>To find a half, quarter, three- quarters or a third of numbers up to 50.</li> <li>To solve worded problems for fractions.</li> </ul>

	problems for addition and subtraction.	solve multiplication and division problems.			
Strand			Measurement (mass, and temperature)	Time	Place Value to 100 (consolidation)
Vocabulary			Compare, weight, mass, heavy, heavier, light lighter, temperature, hot cold, Centigrade, °C, degree, scale	Second, minute, hour, 24 hours, am, pm, half past, o'clock, quarter past	Count, sort, group, number sentences, expression, fewer, greater, equal, less than, more than, equal, <, =, >, fewest, smallest, greatest, representation, prove, check
Skills and knowledge			<ul> <li>To measure mass in kilograms and grams.</li> <li>To compare measurements of mass and order them using standard units.</li> <li>To choose sensible units to measure the mass of an object.</li> <li>To solve worded problems using mass (which may use any of the four</li> </ul>	<ul> <li>To tell the time to the hour, half hour and quarter past.</li> <li>To solve problems relating to time in minutes or hours.</li> <li>To know that there are 24 hours in a day and read a 24hour time.</li> <li>To write time in minutes and ours with an awareness of am and pm.</li> </ul>	<ul> <li>To quickly partition numbers up to 100 using different representations.</li> <li>To use partitioning numbers to support addition and subtraction of 2-digit to 2- digit numbers.</li> <li>To recall number facts quickly and efficiently.</li> <li>To add numbers onto a blank number line bridging through 100.</li> </ul>

		number	To tell time to	
		operations).	5 minutes.	
		To read a scale		
		which may be		
		calibrated in		
		1s, 2s, 5s, 10s		
		or 100s.		
Strand			Measurement	
			Volume and capacity	
Vocabulary			Compare, volume,	
			capacity, full, half-full,	
			nearly full, empty,	
			measure, millilitres, ml	
			litres, l, scale	
Skills and			To compare the	
knowledge			volume of 3	
0 -			objects using	
			millilitres and	
			litres.	
			To read a scale	
			which may be	
			calibrated in 1s.	
			2s 5s 10s or	
			1005.	
			To choose	
			sensible units	
			to measure the	
			volume of a	
			fluid	
			objects using	
			objects using	
			standard	
			measurements	
			(ml, l).	

		To solve
		problems for
		measurement
		(which may use
		any of the four
		number
		operations)