

Ashtree Primary School and Nursery



Mathematics Curriculum

Medium Term Overview

Purpose of Study of the National Curriculum 2014

Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

Aims of the National Curriculum 2014

The National Curriculum for mathematics aims to ensure that all pupils:

- become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils have conceptual understanding and are able to recall and apply their knowledge rapidly and accurately to problems
- **reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Maths Vision at Ashtree

Mathematics teaches us how to make sense of the world around us through developing a child's ability to calculate, to reason and to solve problems. It enables children to understand and appreciate relationships and pattern in both number and space in their everyday lives. Through their growing knowledge and understanding, children learn to appreciate the contribution made by many cultures to the development and application of mathematics.

At Ashtree we aim to:

promote enjoyment and enthusiasm for learning through practical activity, exploration and discussion;

- promote confidence and competence with numbers and the number system;
- develop the ability to solve problems through decision-making and reasoning in a range of contexts;
- develop a practical understanding of the ways in which information is gathered and presented;
- explore features of shape and space, and develop measuring skills in a range of contexts;
- understand the importance of mathematics in everyday life.

Teaching and Learning Mathematics at Ashtree:

We use a variety of teaching and learning styles to develop children's knowledge, skills and understanding in mathematics. We do this through lessons that have a high proportion of whole-class and group teaching. During these lessons we encourage children to ask as well as answer mathematical questions and give explanations. They have the opportunity to use a wide range of resources such as number lines, number squares, number cards and small apparatus to support their work. Children use ICT in mathematics lessons where it will enhance their learning, as in modelling ideas and methods. Wherever possible, we encourage the children to use and apply their learning in everyday situations.

In all classes there are children of differing mathematical ability. We recognise this fact and provide suitable learning opportunities for all children by matching the challenge of the task to the ability of the child. We achieve this through a range of strategies – in some lessons through differentiated group work and in other lessons by organising the children to work in pairs on open-ended problems or games. We use Teaching Assistants to support some children and to ensure that work is matched to the needs of individuals.



	End Doints	
	End Points	
KS1	Measurement	Use standard units of measurement, comparing measures and the number system with the appropriate language. Telling the time on analogue clocks. Can count and recognising coins using the symbols \pounds and p accurately.
	Number & Place Value	To count, read, write and comparing numbers to at least 100 and solve problems fluently. They count in multiples of 2,5,10 & 3. Pupils are introduced to larger numbers to develop further their recognition of patterns within the number system and represent them. Pupils should partition numbers in different ways They will become fluent and reason,
		discuss and solve problems. They begin to understand zero as a place holder.
	Multiplication & Division	To become fluent in the 2, 5 and 10 multiplication tables and connect them to each other using the correct vocabulary. They know related division facts to perform written and mental calculations.
	Fractions	Pupils use fractions as 'fractions of' discrete and continuous quantities of shapes, objects and quantities. They will use the correct vocabulary.
	Geometry: Position and Direction	To work with patterns of shapes, including those in different orientations using the correct vocabulary. They use the concept and language of angles to describe 'turn' by applying rotations.
	Geometry: Properties of Shape	Pupils name 2-D and 3-D shapes and identify the properties of each shape. Pupils identify, compare and sort shapes on the basis of their properties and use vocabulary precisely, such as sides, edges, vertices and faces. Pupils read and write names for shapes appropriately
	Addition & Subtraction	Pupils use the correct vocabulary addition and subtraction. Pupils are fluent in deriving facts for addition and subtraction within 20. They check their calculations using reordering, the inverse and commutativity. They begin to use addition and subtraction in columns.
	Statistics	Pupils record, interpret, collate, organise and compare information. They use simple ratios
KS2	Ratio, Proportion & Algebra	Pupils recognise proportionality in contexts when the relations between quantities are in the same ratio. Pupils link percentages or 360° to calculating angles of pie charts. Pupils should consolidate their understanding of ratio when comparing quantities, size and scale drawings by solving a variety of problems Pupils solve problems involving unequal quantities
	Measurement	Pupils connect conversion to a graphical representation They know approximate conversions Using the number line, pupils use, add and subtract positive and negative integers for measures. They relate the area of rectangles to parallelograms and triangles
	Number & Place Value	Pupils use the whole number system, including saying, reading and writing numbers accurately.
	Multiplication & Division	Pupils multiply and divide using the short and long method using their multiplication tables to aid fluency They mentally calculate with increasingly large numbers and more complex calculations Pupils explore the order of operations using brackets Common factors can be related to finding equivalent fractions.
	Fractions	Pupils use and understand the addition and subtraction of fractions with different denominators by identifying equivalent fractions with the same denominator. They



Geometry: Position and Direction	calculate with simple fractions and decimal fraction equivalents to aid fluency. Pupils can convert a simple fraction to a decimal fraction and can round the decimal to three decimal places. Pupils multiply and divide numbers with up to two decimal places by one-digit and two-digit whole numbers. Pupils multiply decimals by whole numbers. Pupils are introduced to the division of decimal numbers by one-digit whole number and recognise division calculations as the inverse of multiplication Pupils can draw and label a pair of axes in all four quadrants with equal scaling. Pupils draw and label shapes specified by coordinates in the four quadrants, predicting missing coordinates using the properties of shapes.
Geometry: Properties of Shape	Pupils draw shapes and nets accurately, using measuring tools and conventional markings and labels for lines and angles. Pupils describe the properties of shapes and explain how unknown angles and lengths can be derived from known measurements. These relationships might be expressed algebraically for example, $d = 2 \times r$; $a = 180 - (b + c)$.
Addition & Subtraction	Pupils add and subtract larger numbers, using the formal methods. They mentally calculate with increasingly large numbers and complex calculations. Pupils round answers and explore the order of operations using brackets
Statistics	Pupils connect their work on angles, fractions and percentages to the interpretation of pie charts. Pupils draw graphs relating two variables. They connect conversion from kilometres to miles in measurement to its graphical representation. Pupils know when it is appropriate to find the mean of a data set.

	Domains	Concepts
KS1	Measurement	 choose and use appropriate standard units to estimate and measure 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 compare and order lengths, mass, volume/capacity and record the results using >, < and = recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change compare and sequence intervals of time 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. Know the number of minutes in an hour and the number of hours in a day
	Number & Place	• count in steps of 2, 3, and 5 from 0, and in tens from any number,
	Value	 forward or backward recognise the place value of each digit in a two-digit number (tens, ones)
		 identify, represent and estimate numbers using different representations, including the number line
		 compare and order numbers from 0 up to 100; use <, > and = signs read and write numbers to at least 100 in numerals and in words



Nursery		
		use place value and number facts to solve problems
	Multiplication & Division	 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 (×), division (÷) and equals (=) signs
		 show that multiplication of two numbers can be done in any order (commutative) 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 contexts
	Fractions	• recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length,
		shape, set of objects or quantity
		• write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the
		equivalence of $^2/_4$ and $^1/_2$
	Geometry:	order and arrange combinations of mathematical objects in patterns
	Position and	and sequences
	Direction	 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)
	Geometry: Properties of	 identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line
	Shape	 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
	Addition &	 solve problems with addition and subtraction:
	Subtraction	- using concrete objects and pictorial representations, including those
		involving numbers, quantities and measures
		- applying their increasing knowledge of mental and written methods
		 recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
		 add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones

Ashtree Primary School and Nursery		M PLANNING OVERVIEWS
TO.SC.Y		 a two-digit number and tens two two-digit numbers adding three one-digit numbers show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
	Statistics	 interpret and construct simple pictograms, tally charts, block diagrams and simple 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
KS2	Ratio, Proportion & Algebra	 solve problems involving the relative sizes of two 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, 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 use simple formulae generate and describe linear number sequences express missing number problems algebraically find pairs of numbers that satisfy an equation with two unknowns enumerate possibilities of combinations of two variables
	Measurement	 solve problems involving the calculation and conversion of units of measure, using decimal notation up to three 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 three 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 centimetre cubed (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]



Number & Place	read, write, order and compare numbers up to 10 000 000 and
Value	determine the value of each digit
	 round any whole number to a required degree of accuracy
	 use negative numbers in context, and calculate intervals across zero
	 solve number and practical problems that involve all of the above
Multiplication &	•multiply multi-digit numbers up to 4 digits by a two-digit whole number
Division	using the formal written method of long multiplication
	•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, 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 four 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
Fractions	use common factors to simplify fractions; use common multiples to average fractions in the same denomination.
	 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, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)
	• divide proper fractions by whole numbers (for example, $\frac{1}{3} \div 2 = \frac{1}{6}$)
	associate a fraction with division and calculate decimal fraction
	equivalents (for example, 0.375) for a simple fraction (for example, $\frac{3}{8}$)
	 identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up
	to three decimal places
	 multiply one-digit numbers with up to two decimal places by whole numbers
	• use written division methods in cases where the answer has up to two
	decimal places
	 solve problems which require answers to be rounded to specified degrees of accuracy
	 recall and use equivalences between simple fractions, decimals and
	percentages, including in different contexts
Geometry:	describe positions on the full coordinate grid (all four quadrants)
Position and	
Direction	



<u> </u>	 draw and translate simple shapes on the coordinate plane, and reflect them in the axes
Geometry: Properties of Shape	 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 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
Addition & Subtraction	 perform mental calculations, including with mixed operations and large numbers use their knowledge of the order of operations to carry out calculations involving the four operations solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why solve problems involving addition and subtraction, use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
Statistics	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average





Number - Number and place value:

Numbers to Ten – Finding Patterns in Numbers (including subitising)

Numbers to Ten – Counting and Comparison (more, less, fewer)

Numbers to Ten – Estimating and Ordering

Numbers to Twenty – Making 10 and Some More

Numbers to Twenty – Estimating and Ordering, 1 More and 1 Less

<u>Number – Multiplication and Division:</u>

Numbers to Twenty – Doubling and Halving

Numbers to Twenty – Odd and Even Numbers

Number - Addition and Subtraction:

Numbers to Ten – Regrouping the Whole

Numbers to Ten – Part Whole Addition and Subtraction

Numbers to Ten – Solving Problems Using Part or Whole Unknown

Numbers to Ten – Comparison

Numbers to Ten - Equality and Balance

Geometery – Properties of shape

Positional Language Including Ordinal Numbers

Names and Properties of 2-D and 3-D Shape

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Geometry Positional Language Including Ordinal Numbers	Describe position, direction and movement, including whole, half, quarter and three-quarter turns Positional language Turning Postion – ordinal numbers Position – ordinal numbers from left and right Position – ordinal numbers within buildings Position within a grid
2	Number and place value Numbers to Ten - Finding Patterns in Numbers (including subitising)	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 Conservation of number Conservation of number - rearranging Subitising familiar patterns Subitising numbers to ten
3	Number and place value Numbers to Ten - Counting and	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 Ordering values



	Comparison (more, less, fewer)	Ordering consecutive numbers Linking counting and sequencing
4	Number and place value	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
	Numbers to Ten – Estimating and Ordering	Represent numbers up to 10 in many ways through regrouping Matching values to mathematical models using increasingly complex regrouping
5	Number and	Add and subtract one-digit and two-digit numbers to 20, including zero
	place value	Pagrauning within numbers to 10
	Numbers to Ten	Regrouping within numbers to 10 Exploring the language of addition
	Regrouping	Exploring commutativity
	the Whole	Exploring counting on Exploring ways to make 5
		Using regrouping to make 5 and some more (think 5)
		Subtraction by taking away
		Explore the language of subtraction Subtraction is not commutative
6	Number and	Add and subtract one-digit and two-digit numbers to 20, including zero
	place value	Devicing identifying the orbits and the prosts (observed to see all posts and orbits are above.)
	Numbers to Ten	Revising identifying the whole and the parts (where all parts and wholes are shown) Story problems with unknown whole (addition)
	Part Whole	Story problems with one unknown part (subtraction – take away model)
	Addition and	Matching representations
	Subtraction	Exploring statements focusing on language and proof Finding all possibilities
		Exploring number sentences
7	Number and place value	Add and subtract one-digit and two-digit numbers to 20, including zero
	place value	Using 1:1 correspondence to find how many more / fewer
	Numbers to Ten	Introducing the language of difference
	- Solving	Understand difference as the distance between two numbers Finding difference in context
	Problems Using Part or Whole	I maing difference in context
	Unknown	
8	Number and place value	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
	Numbers to Ten	Using language to express equivalent ways of making the same total
	Comparison	Using language to express equivalent ways of making the same total (using a tens frame)
		Making equal values using symbols to record
		Making equivalent values using addition and subtraction
		Bonds to 10
		Finding equivalents
9	Number and	Read and write numbers from 1 to 20 in numerals and words
9	Number and place value	Read and write numbers from 1 to 20 in numerals and words
	Numbers to Ten	Benchmarks of 0, 5 and 10 and their relationship to the numbers 1-10
	Equality and	Making greater than 10
	Balance	Building numbers to 20
		Links between the language of eleven to twenty and ten and ☐ more
	1	,



		Ten and some more using place value, base-10, equipment
		Links between the language of eleven to twenty and the language of place value
40	Massali an and	
10	Number and place value	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
	Numbers to	Estimating and comparing smaller and larger quantities
	Twenty –	Estimating and comparing sets of different objects
	Making 10 and Some More	1 more / 1 less - numbers ten to twenty
	Some wore	1 more / 1 less on a number line
		Comparing and ordering numbers on a blank number track
		Placing numbers 0-20 on a blank number line (number magnitude)
11	Number and place value	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
	Numbers to	Building on part whole understanding where the parts are equal
	Twenty – Estimating and	Replace colours with numbers and quantities to explore equal parts of the whole further
	Ordering, 1 More and 1 Less	Making doubles and finding halves using tens frames
12	Number and place value	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
	Numbers to Twenty –	Explore odd and even numbers through the use of tens frames
	Doubling and Halving	Explore the alternating pattern of odd and even in consecutive numbers using number rods
		Explore the odd and even number values on a number line
13	Number and place value Numbers to	Recognise and name common 2-D and 3-D shapes, including: - 2-D shapes [for example, rectangles (including squares), circles and triangles] 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]
	Twenty – Odd and Even	To understand what a mathematical shape is
	Numbers	Identify 2-D shapes through their properties in an unfamiliar context
		To classify 3-D shapes
		To explore the shape of the faces on 3-D shapes
14	Geometry Names and Properties of 2-	Recognise and name common 2-D and 3-D shapes, including: - 2-D shapes [for example, rectangles (including squares), circles and triangles] - 3-D shapes [for example, cuboids (including cubes), pyramids and spheres
	D and 3-D Shape	To understand what a mathematical shape is Identify 2-D shapes through their properties in an unfamiliar context To classify 3-D shapes To explore the shape of the faces on 3-D shapes
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Year 1 Medium Term Planning Spring

Number - Number and place value:

Numbers to Twenty – Equality and Balance Numbers to Twenty-Language and Problem Solving

Number - Multiplication and Division:

Counting in 2s, 5s 10s.

Number – Addition and Subtraction:

Number to 20 - Adding using 'Think 10' Number to 20 – Subtraction using 'Think 10'

Numbers to Twenty – Part or Whole Unknown

Numbers to Twenty – Comparison (difference, more, less, fewer) including **Statistics**

Measurement:

The Language of Comparing Length, Height, Mass, Speed Days of the Week and Months of the Year Coins and Combinations to 20p, Ordering and Comparing Non-standard Measures and Introducing Simple Standard Measures

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Measures The Language of Comparing	Compare, describe and solve practical problems for: - lengths and heights (for example, long / short, longer / shorter, tall / short, double / half) - mass / weight (for example, heavy / light, heavier than, lighter than) - time (quicker, slower)
	Length, Height, Mass, Speed	Using comparative language in the context of length and height Using comparative language in the context of mass Compare the mass of items using pan balances Using comparative language in the context of time Ordinal numbers used to order timed events
2	Measures Sequencing Events – Days of the Week and Months of the Year	Recognise and use language relating to dates, including days of the week, weeks, month Days of the week Events during the week Months and seasons of the year
3	Number to Twenty - Adding using 'Think 10'	Add and subtract one-digit and two-digit numbers to 20, including zero Make 10 and using think 5 recap Think 10 by regrouping the second addend Think 10 by regrouping the first addend Think 10 when regrouping a two-digit number to aid addition Using think 15
4	Number	Add and subtract one-digit and two-digit numbers to 20, including zero



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	Number to 20 – Subtraction using 'Think 10'	Counting back from twenty Subtracting 1-digit numbers from 2-digit numbers, below twenty, without crossing 10 Subtracting 1-digit numbers from numbers between 10 - 20 crossing the benchmark 10 Subtracting 1-digit numbers from numbers between 10 - 20 by regrouping and taking from the 10
5	Number and place value	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
	Numbers to Twenty – Equality and Balance	Explore different ways to total the same value (numbers 11 to 20) Exploring different ways to make the same total, including + and - (numbers 11 to 20) Bonds to 20
6	Number	Represent and use number bonds and related subtraction facts within 20
	Numbers to Twenty – Part or Whole Unknown	Identifying the part and whole Identify if a part or the whole is missing Part whole relationships using +, - and = symbols Numbers to twenty - part or whole unknown
7	Number	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems
	Numbers to Twenty– Language and Problem Solving	The language of problem solving (the whole as the result) The language of problem solving (a part as the result) Using the language of problem solving to solve problems with the whole unknown Using the language of problem solving to solve problems with a part unknown Developing the skills of problem solving Finding all possibilities
8	Number	Add and subtract one-digit and two-digit numbers to 20, including zero
	Numbers to Twenty – Comparison (difference, more, less, fewer) including Statistics	Comparing values using 1:1 and familiar structures Finding the difference between values Finding the difference in the context of statistics Solving problems involving comparison and difference
9	Measures	Recognise and know the value of different denominations of coins and notes
	Coins and Combination s to 20p, Ordering and Comparing	Recognising the value of coins using a proportional representation Comparing the value of coins using a proportional model Calculating coin combinations for values that do not have a designated coin below 10p Calculating coin combinations for values that do not have a designated coin between 11p an Compare and order different combinations of coins
10	Number	Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
	Counting in 2s, 5s 10s.	Counting in 2s and spotting patterns Counting in 5s and spotting patterns Counting in 10s and spotting patterns Counting with coins – 2p, 5p and 10p
11	Measures Non-	Measure and begin to record lengths, heights, mass/weight, capacity / volume
	standard Measures and Introducing Simple Standard	Comparing volumes in containers of the same size Comparing what the same volume looks like in different shaped containers Measuring lengths using Cuisenaire rods Measuring lengths using centimetres Weighing mass with non-standard units Weighing mass with standard units
	Measures	1. 2.gg mass min standard anno



Year 1 Medium Term Planning Summer

Number and place value:

Numbers to Twenty Numbers to One Hundred Place Value – Estimation, Ordering and Comparison

Fractions:

Fractions – Sharing into Equal Groups Fractions – Equal or Unequal Parts of Shapes Fractions of Continuous Quantities Including Capacity

Measurement:

Time – Telling the Time (O'Clock and Half Past)

Geometery

Multiplication and Division:

Multiplication and Division – Equal or Unequal Groups and Remainders

Multiplication – Repeated Addition and Arrays

Multiplication - Problem Solving

Multiplication – Scaling and Counting in 2s to 24

Division – Sharing and Grouping Problems

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Multiplication and Division	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays
	Equal or Unequal Groups and Remainders	Sharing into equal groups Sharing into unequal groups Equal or unequal groups?
2	Multiplication	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays
	Repeated	
	Addition and	Counting and repeated addition
	Arrays	The language of multiplication
		Repeated addition and arrays (2s)
		Repeated addition and arrays (5s and 10s)
3	Multiplication	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays
	Problem Solving	, and grant and an
		Finding the maths in a picture
		Multiplying the maths in a picture
		Multiplication and measure
4	Multiplication	Solve one-step problems involving multiplication and division, by calculating the answer
		using concrete objects, pictorial representations and arrays
	Scaling and	Evaloring applies
	Counting in 2s	Exploring scaling Twice as long
	to 24	Twice as long Twice as many - patterns
		Twice as many - patients Twice as many - recipe
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Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays Sharing and Grouping Problems Problems Solving sharing problems Solving sharing problems Division by grouping problems Division by grouping problems Telling the Time (O'Clock and Haif Past) Telling the Time (O'Clock and Haif Past) The hands on a clock Telling the time - otclock Telling equal parts of a whole (halves) Finding equal parts of a whole (quarters) Finding a part part of a whole (quarters) Finding parter of an amount Finding halves and quarters of amounts in context Recognise, find and name a quarter as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Recognise, find and name a quarter of amount Finding a qualater of an amount Finding halves and quarters of amounts in context Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Recognise, find and name a parter as one of four equal parts of an object, shape or quantity Recognise, find and name a parter as one of four equal parts of an object, shape or quantity Recognise, find and name a parter as one of four equal parts of an object, shape or quantity			
Sharing and Grouping Problems Problems Solving sharing problems Solving sharing problems Solving sharing problems Solving sharing problems Linking multiplication and division Telling the Time (O'Clock and Haif Past) Telling the Time (O'Clock and Haif Past) The hands on a clock Telling the time - o'clock Telling the time o'clock Telling the time - o'clock Telling the tim	5	Division	
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12 Place Value Identify and represent numbers using objects and pictorial representations, including the			
3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	12	Place Value	

Ashtree Primary School and Nursery



Estimation, Ordering and Comparison	Ordering and comparing lengths to 100 Ordering and comparing values to 100 Ordering and comparing values in different representations to 100 Estimation and number magnitude
	Using place value to estimate and order





Year 2 Medium Term Planning Autumn

Number - Number and place value:

Place Value - Making Tens and Some More

Place Value and Regrouping Two-Digit Numbers

Counting On and Back in Ones and Tens from any Number

Representing, Ordering and Comparing Numbers to 100 and Quantities for Measures

Estimation and Magnitude

Comparison (difference, more, less, fewer)

Number – Addition and Subtraction:

Securing Fluency to Twenty

Numbers to 20 - Mental Addition and Subtraction

Finding Complements of 10 and 100 Including Measures

Add and Subtract Numbers Mentally Using 1- and 2-Digit Numbers

Finding Part or Whole Unknown

Money - Making Combinations and Finding Change

Measurement:

Measures – Estimation and Measure Using Different Scales

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Number Addition and Subtraction Securing Fluency to Twenty	Recall and use addition and subtraction facts to 20 fluently Number magnitude to 20 Double and near doubles Regrouping (partitioning) numbers to ten Regrouping numbers 11 - 20 Equivalence Inequality < and > Regrouping to 'think 10' in addition Using counting on and back through 10 to compare and calculate the difference Using 'think 10' for subtraction Using 10 for adding 3 single digit numbers Choosing a strategy Adding odd and even numbers
2	Number and place value Place Value – Making Tens and Some More	Recognise the place value of each digit in a two-digit number (tens, ones) Regrouping ten ones for one ten Regrouping ten pennies for ten pence Regrouping one ten for ten ones Regrouping ten pence for ten pennies
3	Number and place value Place Value and Regrouping Two-Digit Numbers	Recognise the place value of each digit in a two-digit number (tens, ones) Identifying the place value in 2-digit numbers using place value cards and base-10 Identifying the place value in 2-digit numbers using a proportional (base-10) and non-proportional (money) model Comparing representations of 2-digit numbers Making regroupings of the same number in different ways Identify missing parts of a regrouped number in a variety of models

4	Number and place value Counting On and Back in Ones and Tens from any Number	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward Highlighting the place value of an identified number Counting on and back Counting on and back in through benchmarks Deepening the concept of unitisation across linear and grid models	
5	Number and place value Representing, Ordering and Comparing Numbers to 100 and Quantities for Measures	Compare and order numbers from 0 up to 100; use <, > and = signs Ordering numbers Ordering numbers represented in a variety of ways < , > and = symbols Order and comparing quantities for measures	
6	Number and place value Estimation and Magnitude	Identify, represent and estimate numbers using different representations, including the number line Placing numbers on a number line in the correct positions Using benchmarks to estimate values on a number line Placing numbers proportionally correctly on a blank number line using benchmarks	
7	Number Addition and Subtraction Numbers to 20 - Mental Addition and Subtraction	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Adding more than two single digit numbers using reordering Rebalancing when adding 9 or 11 Rebalancing when subtracting 9 or 11 Use think addition for subtraction	
8	Number Addition and Subtraction Finding Complements of 10 and 100 Including Measures	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Rehearsing the complements to 10 and comparing them to the complements to 100 Continue to rehearse complements to 10 and 100 whilst regrouping flexibly Think addition for subtraction using multiples of 10 within the context of a problem Think addition for subtraction using multiples of 10 within measure	
9	Number Addition and Subtraction Add and Subtract Numbers Mentally Using 1- and 2-Digit Numbers	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: - a two-digit number and ones - a two-digit number and tens - two two-digit numbers - adding three one-digit numbers Using doubles and near doubles Finding the nearest multiple of ten Rebalancing for equal sum Using rebalancing in context Difference Rebalancing to find the equal difference Adding a 1-digit number to a 2-digit number using think 10 Adding a 2-digit number to a 2-digit number using think 10 Subtracting a 1-digit number from a 2-digit number using think 10	



Number Addition and Subtraction	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
	Identifying the parts and the whole using Cuisenaire rods in a bar model
0	Identifying the parts and whole in a cherry model
Whole Unknown	Inverse relationship of addition and subtraction Using inverse to find missing numbers
	Using inverse to find missing numbers in problems
	Missing numbers in a range contexts including measures
Number Addition and Subtraction	Solve simple problems in a practical context involving addition and subtraction of money of including giving change
	Find different combinations of coins that equal the same amounts of money Solve calculations involving subtraction of money of the same unit
*	Solve simple problems in a practical context involving addition and subtraction of
•	money of the same unit
	Continue to solve simple problems in a practical context involving addition and
Change	subtraction of money of the same unit, including giving change
Number and	Compare and order numbers from 0 up to 100; use <, > and = signs
place value	Understand difference when comparing numbers on number lines to other models
Comparison	Compare values in the context of measuring mass (g) and use the language of comparison
more, less,	Compare values in the context of comparing mass (kg) and use the language of comparison
fewer)	Compare values in the context of measuring heights, lengths and widths, using the language of comparison
	Compare values in a variety of contexts
Measurement	Choose and use appropriate standard units to estimate and measure length / height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest
Estimation and	appropriate unit, using rulers, scales, thermometers and measuring vessels
Measure Using	
Different Scales	Estimate on a number line using benchmarks
	Estimate and compare capacities
	Read capacities on different scales Read scales on circular dials
	Addition and Subtraction Finding Part or Whole Unknown Number Addition and Subtraction Money — Making Combinations and Finding Change Number and place value Comparison (difference, more, less, fewer) Measurement Estimation and Measure Using

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Year 2 Medium Term Planning Spring

Number - Addition and Subtraction:

Written Addition Method Commutativity in Addition but not in Subtraction Written Subtraction Method Problem Solving with Addition and Subtraction in a Range of Contexts

Number - Multiplication and division:

Double and Halve One and Two-digit Numbers and Amounts of Money Times Tables – 2s, 5s and 10s. Patterns and Strategy (counting in 3s)

Multiplication – Multiples and Repeated Addition

Multiplication - Number of Groups, Group Size and Product

Multiplication Problem Solving

Division - Sharing and Grouping

Division – Sharing and Grouping Problems including Remainders

Measurement:

Telling the Time to: O'clock, Half Past, Quarter Past and To Estimating, Ordering and Comparing Time

Statistics

Totalling and Comparing Amounts in Block Graphs, Pictograms, Tables and Tally Charts

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Totalling and Comparing Amounts in Block Graphs, Pictograms, Tables and Tally Charts And simple tables Tables Tables for sorting Information tables Gathering data using tally charts Representing data in block graphs Pictograms	and simple tables Tables for sorting Information tables Gathering data using tally charts Representing data in block graphs
2	Addition & Subtraction Written Addition Method	Applying their increasing knowledge of mental and written methods Choosing the appropriate mental strategy when adding a two-digit number and ones Adding two-digit numbers and tens using concrete resources and pictorial representations Adding two 2-digit numbers using a written method with no regrouping Adding two 2-digit numbers using a written method with regrouping of ones
3	Addition & Subtraction Commutativity in Addition but	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Reviewing the parts and the whole using Cuisenaire rods in a bar model Prove that addition is commutative Prove that commutativity is not possible when subtracting



	\sim	
	not in Subtraction	
4	Subtraction	Solve problems with addition and subtraction, applying their increasing knowledge of mental and written methods
	Written Subtraction Method	Subtracting a 1-digit number from a 2-digit number – counting back using think 10 and regro subtrahend Subtracting a 1-digit number from a 2-digit number – regrouping the minuend Subtracting tens from a 2-digit number Subtracting a 2-digit number from a 2-digit number with no regrouping Subtracting a 2-digit number from a 2-digit number with regrouping
5	Addition & Subtraction	Solve problems with addition and subtraction: - using concrete objects and pictorial representations, including those involving numbers, que measures
	Problem Solving with Addition and Subtraction in a Range of Contexts	The language of problem solving Finding the unknown in a worded problem Choosing a strategy Strategies for solving missing number problems Further problem solving within statistics
6	Time Telling the Time to: O'clock, Half Past, Quarter Past and To	Tell and write the time to five minutes, including quarter past / to the hour and draw the hand to show these times Turns – quarter turn, half turn, three-quarter turn and full turn Telling the time – o'clock, quarter past, half past, quarter to Telling the time to 5 minute intervals
7	Time Estimating, Ordering and Comparing Time	Compare and sequence intervals of time Estimating intervals of time Ordering intervals of time Comparing intervals of time
8	Multiplicati on Double and Halve One and Two- digit Numbers and Amounts of Money	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Doubling two-digit numbers Halving multiples of ten Halving two-digit numbers Doubling and halving in the context of money
9	Multiplicat ion Times Tables – 2s, 5s and 10s Patterns and Strategy (counting in 3s)	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Patterns and strategies for the 2 times table Patterns and strategies for the 5 and 10 times tables Counting in 3s
10	Multiplica tion	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (Å~), division (÷) and equals (=) signs



	I	
	/lultiples	Linking repeated addition and multiples
	ind	Multiples and multiplication
	Repeated	Exploring arrays
	Addition	
M	ultiplication	Calculate mathematical statements for multiplication and division within the multiplication
		tables and write them using the multiplication (Å~), division (÷) and equals (=) signs
1	umber of	
	roups, Group	The language of multiplication
Siz	ze and	The commutativity of multiplication
Pr	oduct	Strategies to calculate multiplication facts – regrouping to multiply
Mi	ultiplication	Solve problems involving multiplication and division, using materials, arrays, repeated
		addition, mental methods, and multiplication and division facts, including problems in
P	roblem	contexts
Sc	olving	
		Bar modelling for multiplication problems
		Multiplication of measures
		Multiplication and money (£ and p)
D:	. data	Mixed worded problems
DI	vision	Calculate mathematical statements for multiplication and division within the multiplication
CI		tables and write them using the multiplication (Å~), division (÷) and equals (=) signs
	naring and	Division by sharing
Gr	rouping	Division by grouping
		Division by grouping Division by grouping using arrays
		Linking division and multiplication
		Using multiplication facts to divide
Di	vision	Solve problems involving multiplication and division, using materials, arrays, repeated
		addition, mental methods, and multiplication and division facts, including problems in
Sh	naring and	contexts
	rouping	
	oblems	Patterns and rules of divisibility
	cluding	Division with remainders – sharing
	emainders	Division with remainders – grouping
Re	emanuers	Problems using division in context
		Solving problems using division in context



Year 2 Medium Term Planning Summer

Multiplication and division:

Problem Solving for All Operations (including Fractions) Multiplication and Division - Equality and Balance Mental Calculation Review

Addition & Subtraction:

Problem Solving for All Operations (including Fractions) Mental Calculation Review Place Value and Written Calculation Review

Measures:

Time – Telling the Time to the Nearest 5 Minutes

Fractions:

Finding Halves, Quarters and Thirds of Amounts Finding Halves, Quarters and Thirds of Shapes Finding Three-Quarters of Shapes and Amounts Equivalence Fractions of Continuous Quantities Problem Solving for All Operations (including Fractions)

Properties of shape:

Geometry - Properties of 2-D and 3-D shape, Classifying and Sorting Geometry – Symmetry Geometry - Sequencing **Rotation and Right Angles**

Problem-solving and	reasoning should be	e integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Fractions Finding Halves, Quarters and Thirds of Shapes	Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity Recognising shapes split equally into halves, quarters and thirds Finding 12, 14 and 13 of 2-D shapes Finding fractions of amounts within the context of shape Finding what fraction of a shape is given
2	Fractions Finding Three- Quarters of Shapes and Amounts	Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity Finding 34 of a shape Finding 34 of an amount Finding 34 in the context of finding amounts within shapes
3	Fractions	Write simple fractions for example, $1/2$ of $6 = 3$ and recognise the equivalence of $2/4$ and $1/2$



	Equivalence	
	Equitations	Exploring 12 , 24 equivalence in shapes
		Exploring 12, 24 equivalence using Cuisenaire rods
		Comparing 12 , 24 equivalence on a number line
		Equivalence: 12, 24 of amounts within shapes
_		Equivalence: 12, 24 of amounts
4	Fractions	Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of
	Continuous	objects or quantity
	Continuous	Counting fractions in context
	Quantities	Counting fractions in context Counting in fractions using a number line
		Fractions of length
		Fractions of capacity
		Fractions of time
	Time	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
5	Telling the Time	
	to the Nearest 5	Telling the time – o'clock and half past
	Minutes	Telling the time – quarter past the hour
	Will locate	Telling the time – quarter to the hour
		Telling the time to the nearest 5 minutes
		Intervals of time
6	Problem	Solve problems with addition and subtraction:
	Solving	- using concrete objects and pictorial representations, including those involving numbers
		, quantities and measures
	All Operations	- applying their increasing knowledge of mental and written methods
	(including	Solve problems involving multiplication and division, using materials, arrays, repeated
	Fractions)	addition, mental methods, and multiplication and division facts, including problems in contexts
		Contexts
		Changing an officient strategy addition and subtraction
		Choosing an efficient strategy – addition and subtraction Choosing an efficient strategy – multiplication and division
		Identifying the unknown
		Drawing to solve problems
		Pictorial representation and part part whole – fractions of amounts
		Making connections between the numbers ½, ¼ or 1/3; the fraction words; fractions of am
		of shapes
		Finding ¾ in the context of worded problems
7	Multiplication	Solve problems involving multiplication and division, using materials, arrays, repeated
	and Division	addition, mental methods, and multiplication and division facts, including problems in
		contexts
	Equality and	
	Balance	Equality in multiplication
		Keeping the balance
		Comparing calculations
0	Coorsets	Using division to identify equality in multiplication
8	Geometry	Identify and describe the properties of 2-D shapes, including the number of sides and
	Droportios of O	symmetry in a vertical line. Identify and describe the properties of 3-D shapes, including
	Properties of 2-	the number of edges, vertices and faces
	D and 3-D	Naming 2-D shapes and their properties
	shape,	Naming 2-D shapes and their properties Naming 3-D shapes and their properties
	Classifying and	Identifying and classifying shapes by their properties
	Sorting	identifying and classifying snapes by their properties
9	Geometry	Identify and describe the properties of 2-D shapes, including the number of sides and
J	Geometry	symmetry in a vertical line
	Symmetry	Symmetry in a vertical line
	Symmetry	Linking symmetry to halving
		Identifying and sorting shapes - symmetry
		Drawing symmetrical patterns and shapes



10	Mental Calculation Review	Solve problems with addition and subtraction: - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts Reasoning about addition
		Identifying the unknown Checking using the inverse Simplifying repeated addition using multiplication
11	Geometry	Order and arrange combinations of mathematical objects in patterns and sequences
	Sequencing	Linear sequences Patterns with shapes
12	Geometry Rotation and Right Angles	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) 14, 1/2 and 3/4 turns clockwise and anti-clockwise
		1/4 turn = a right angle Providing and following directions
13	Place Value and Written Calculation Review	Providing and following directions Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: - a two-digit number and ones - a two-digit number and tens - two, two-digit numbers Read and write numbers to at least 100 in numerals and in words
		Problem solving with addition Checking for mistakes in written addition and subtraction Counting in tens and hundreds to 1000 Hundreds and some more 3-digit numbers – part whole



Year 3 Medium Term Planning Autumn

Number - Number and place value:

Place Value and Regrouping Counting On and Back in Ones, Tens and Hundred Estimation, Magnitude and Rounding

Number - Addition and Subtraction:

Mental Fluency – Addition Mental Fluency – Subtraction Fact Families and Applying the Inverse Written Addition Written Subtraction

Problem Solving - Worded Problems

Measurement:

Comparison, Estimation and Magnitude Statistics - Interpreting Bar Charts and Table Methods

Geometry:

Angles, Right Angles and Estimation

Perpendicular and Parallel Lines, Vertical and Horizontal Lines

2-D Shape - Properties and Drawing

Perimeter Including Problem Solving Using Written and Mental

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Children	snould be challeng	ed and extended through the problems they are given to solve.
Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Place Value and	Recognise the place value of each digit in a three-digit number (hundreds, tens and ones
	Regrouping	10 ones are equal to 1 ten and 10 tens are equal to 1 hundred
	. rog. o a.pg	Comparing representations of 3-digit numbers
		Varying the order and practice
		Regrouping 3-digit numbers flexibly
		Securing equality (for example 3 hundreds are equal to 30 tens and 300
		ones)
2	Counting On	Find 10 or 100 more or less than a given number
	and Back in	
	Ones, Tens	Counting on and back in tens with two digit numbers (and crossing 100)
	and Hundreds	Counting on and back in tens and hundreds (2- and 3-digit numbers)
		Regrouping through hundreds
	Fathersties	Counting on and back in ones, tens and hundreds including regrouping
	Estimation,	Compare and order numbers up to 1000
3	Magnitude and	Use value of digits to compare and order numbers (recognise most
3	Rounding	significant digit)
		Estimate the order of 3-digit numbers
		Estimate number magnitude
		Round numbers to nearest ten and hundred
		Tround humbers to hedrest terrain and humared



4	Measures -	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
	Comparison, Estimation and	Volume/Capacity (I/IIII)
	Magnitude	Develop understanding of appropriate units Reading scales
5	Mental Fluency - Addition	Add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens
		- a three-digit number and hundreds
		Adding 3-digit numbers to ones, tens and hundreds with no regrouping Adding 3-digit numbers to ones with regrouping ('Think 10')
		Adding 2- and 3-digit numbers to tens with regrouping ('Think 100') Mental addition with 2- and 3-digit numbers
		Understanding sum and commutativity in addition
		Finding complements and reordering
		Using compensation to add Using multiple strategies to add mentally
6	Mental Fluency	Add and subtract numbers mentally, including:
	- Subtraction	- a three-digit number and ones
		a three-digit number and tensa three-digit number and hundreds
		a three digit hamber and handreds
		Subtraction is not commutative
		Subtraction is not commutative Place value subtraction
		Subtracting hundreds, tens and ones with no regrouping
		Subtracting ones from 2-digit numbers with regrouping Subtracting multiples of ten from 3-digit number with regrouping
		Subtracting finditiples of terriform 3-digit number with regrouping Subtracting 2-digit numbers from 2-digit numbers with regrouping Mental subtraction
		with 2-digit numbers – varied practice
7	Fact Families	Compensation Solve problems, including missing number problems, using number facts, place value, and m
-	and Applying	addition and subtraction
	the Inverse	Commutative or not commutative
		Creating fact families
		Using fact families and the inverse operation to find missing number
	ritten Addition	Solving more complex missing number problems Add and subtract numbers with up to three digits, using formal written methods of columnar ac
	Tittell Addition	subtraction
8		
		Columnar recording related to place value Formal written method with no regrouping (exchange)
		Formal written method with regrouping of ones
		Regrouping tens and ones
		Using measurement units within addition Language of addition
9	Written	Add and subtract numbers with up to three digits, using formal written methods of
	Subtraction	columnar addition and subtraction
		Formal written method with no regrouping (exchange)
		Subtraction – regrouping (exchange) tens into ones only
		Subtraction – regrouping hundreds into tens only
		Subtraction – regrouping hundreds and tens
		Missing number subtraction problems
		Mixed and multi-strategy practice
10	Problem Solving -	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
		Identifying the part or whole unknown in simple worded problems
		1 , 5 ,



	Worded	Understanding start, change and result problems
	Problems	Mixed Practice
		Understanding multi-step part whole worded problems
11	Interpreting	Understanding simple comparison problems
11	Interpreting Bar Charts and	Interpret and present data using bar charts, pictograms and tables
	Tables	Purpose of bar charts
		Completing bar charts from information provided – identifying intervals of scales
		Interpreting and inferring information from bar charts (including multi-step questions)
		More complex bar chart problems
12	Angles, Right Angles and Estimation	Recognise that angles are a property of shape or a description of a turn Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle
12		Angles are measures of a turn
		Comparing and ordering angles (using right angle as a benchmark)
		Identify internal angles in 2-D shapes
		Classifying shapes using internal angles as a property
13	Perpendicular	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines
	and Parallel Lines, Vertical	
	and Horizontal	Perpendicular lines are lines that will meet at a right angle to each other (where lines are vertical and horizontal)
		Perpendicular lines are straight lines that will meet at a right angle to each other (where lines could also be diagonals)
		Parallel lines are straight lines that have a constant distance between them and will never meet at a point
		Parallel sides and sides that are perpendicular to each other in shapes and parallel and perpendicular lines on diagrams
		Vertical lines are perpendicular to the horizon and horizontal lines are parallel to the horizon
14	2-D Shape – Properties and Drawing	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
	Drawing	Connect the number of sides to the number of angles (and vertices) in a polygon
		Classifying regular and irregular polygons
		Drawing and constructing polygons (property focus on vertices and congruence)
		Drawing and constructing polygons (properties)
15	Perimeter	Measure the perimeter of simple 2-D shapes
	Including	
	Problem Solving Using	Understand perimeter as distance around the sides of a closed shape – constructing perimeter and introducing the language of length and width
	Written and	Calculate perimeter in rectilinear shapes (presented on 1cm² squared paper)
	Mental Methods	Know that different rectangles can have equal perimeters.
	Metilous	Finding the perimeter of regular shapes
		Finding perimeter of rectangles and regular polygons by measuring
		Solving problems and providing proof with perimeter
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Year 3 Medium Term Planning Spring

Multiplication and division:

Multiplication – 3, 4 and 8 Times Tables including Counting Division – 1, 2, 3, 5, 4 and 8 Times Tables Multiplication - Strategy, Associative and Distributive Laws **Multiplication and Division Worded Problems** Multiplication - Multiplying Multiples of Ten Multiplication - Formal Written Multiplication

Fractions

Fractions – Finding Fractions of Discrete and Continuous Quantities **Ordering and Comparing Fractions** Adding and Subtracting Fractions with the Same Denominators Fractions – Problem Solving with Unit and Non-Unit Fractions

Measurement:

Statistics – Pictograms and Scaled Bar Charts

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Children should be challenged and extended through the problems they are given to solve.		
Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Multiplication	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
	3, 4 and 8 Times Tables	Understand that counting up in multiples is also repeated addition Learning multiplication facts through building arrays
	including	Learning multiplication facts through visualising arrays (developing recall)
	Counting	Developing counting strategies for 3x and 4x tables
2	Distriction	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
	Division	Division by sharing using manipulatives
	1, 2, 3, 5, 4	Division by grouping using manipulatives
	and 8 Times	Linking multiplication and division using arrays
	Tables	Learning division facts through visualising arrays (developing recall)
		Rehearsing division facts
3	Multiplication	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit
	Strategy,	numbers, using mental and progressing to formal written methods
	Associative	Doubling and halving
	and	Halving two-digit numbers
	Distributive	Associative law
	Laws	Distributive law up to 10 x 10
4	Ctatiation	Distributive law for 2-digit numbers
4	Statistics	Interpret and present data using bar charts, pictograms and tables
	Pictograms	Making links between bar charts and pictograms
	and Scaled	Completing pictograms from information provided
	Bar Charts	Interpreting and inferring information from pictograms (including multi-step questions)



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5	Multiplication	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in
	and Division	which n objects are connected to m objects
	Worded Problems	which it objects are connected to its objects
	Problems	Worded problems based on equal groups
		Rate worded problems involving money
		Combination worded problems Mixed bar model examples including measures and time
6	Fractions	Recognise, find and write fractions of a discrete set of objects: unit fractions and
		non-unit fractions with small denominators
	Finding	Recognise and use fractions as numbers: unit fractions and non-unit fractions with
	Fractions of	small denominators
	Discrete and	Exploring unit fractions and non-unit fractions
	Continuous	Find and write fractions of a discrete set of objects
	Quantities	Find and write fractions as continuous quantities
7	Freetiens	A range of fraction worded problems including multi-step
7	Fractions	Recognise and show, using diagrams, equivalent fractions with small denominators Recognise and use fractions as numbers: unit fractions and non-unit fractions with small
	Ordering	denominators
	and	
	Comparing	Finding fractions of shapes
	Fractions	Compare and order unit fractions Compare and order fractions with the same denominator
		Exploring equivalence
		Showing equivalence with accurate diagrams
8	Fractions	Add and subtract fractions with the same denominator within one whole (for example, $5/7 + 1/7 = 6/7$)
	Adding and	Finding complements of 1
	Subtracting	Adding fractions with the same denominator
	Fractions with	Subtracting fractions with the same denominator
	the Same	Applying the addition and subtraction of fractions with the same denominator
	Denominators	
9	Fractions	. Solve problems
İ	Problem	Problem solving involving fractions of shape
	Solving with	Ordering and comparing a range of fractions
	Unit and	Mixed worded problems including multi-step
	Non-Unit Fractions	
10	Multiplication	Write and calculate mathematical statements for multiplication and division using the
		multiplication tables that they know, including for two-digit numbers times one-digit
	Multiplying	numbers, using mental and progressing to formal written methods
	Multiples of Ten	Explore the effect of scaling by ten
	1611	Explore the effect of scaling by ten on place value
		Multiplying multiples of ten by one-digit where the product is less than 100
	88 141 11 41	Multiplying multiples of ten by one-digit where the product is greater than 100
11	Multiplication	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit
	Formal Written	numbers, using mental and progressing to formal written methods
	Multiplication	The state of the s
	[Multiplying two-digit numbers by ones using distributive law (no regrouping)
		Multiplying two-digit numbers by ones using distributive law (with regrouping)
		Introducing short multiplication with no regrouping Short multiplication with regrouping of ones into tens only
		Short multiplication with regrouping of ones and tens

Year 3 Medium Term Planning Summer

Number and place value:

Place Value and Decimals - Ten Times Greater and Ten Times Smaller

Place Value and Decimals - Regrouping

Place Value and Decimals – Estimation, Comparing and Rounding

Addition and Subtraction:

Securing the Four Operations with Whole Number including Problem Solving

Multiplication and division:

Division Problem Solving – Sharing and Grouping
Two and Three-Digit Numbers by One-Digit Numbers including Halving
Multiplication, Division and Fractions – Scaling and Correspondence Problems
Securing the Four Operations with Whole Number including Problem Solving
Long Division

Measurement:

Hours, Minutes, Seconds, Days, Weeks, Months, Years Telling the Time (Analogue and Digital) and Estimation Duration

Measures - Measuring and Problem Solving

Geometry:

3-D Shape – Building and Identifying Properties

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives - End of Veer targets to broken down in weekly plans
DIOCK	Stratiu	Learning Objectives – End of Year targets to broken down in weekly plans
1	Division	Solve problems, including missing number problems, involving multiplication and
	Problem	division, including positive integer scaling problems and correspondence problems in
	Solving	which n objects are connected
		to m objects
	Sharing and	
	Grouping	Division by sharing – part whole problems
		Division by sharing – comparison problems
		Division by grouping
	<u> </u>	Using known facts to solve missing number problems
2	Division	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit
	Two and Three-	numbers, using mental and progressing to formal written methods
	Digit Numbers	
	by One-Digit	Place value revision
	Numbers	Halving 2- and 3-digit numbers
		Sharing 2- and 3-digit numbers by ones with no regrouping
	including	Sharing 2- and 3-digit numbers by ones with regrouping
	Halving	Linking base facts to division
3	Multiplication,	Solve problems, including missing number problems, involving multiplication and
	Division and	division, including positive integer scaling problems and correspondence problems in
	Fractions	which n objects are connected
	Tactions	to m objects



	· -	
	Scaling and	Solving integer scaling problems
	Correspondence	Varying the unknown within correspondence problems
	Problems	Mixed problems involving fractions
4	Division	Write and calculate mathematical statements for multiplication and division using the
~	DIVISION	multiplication tables that they know, including for two-digit numbers times one-digit
	Long Division	numbers, using mental and progressing to formal written methods
		γ του
		Revision of quotients and remainders when sharing
		Introducing the long division method (sharing ones)
		Long division of tens and ones with no regrouping
		Long division of tens and ones with regrouping
5	Time	Know the number of seconds in a minute and the number of days in each month, year
	Hours Minutes	and leap year
	Hours, Minutes,	Understand how days, months and years are related
	Seconds, Days,	Finding complements and intervals of 60
	Weeks, Months,	Thrumg complemente and intervals of co
	Years	
6	Time	Tell and write the time from an analogue clock, including using Roman numerals from I
	3	to XII, and 12-hour and 24-hour clocks
	Telling the Time	Estimate and read time with increasing accuracy to the nearest minute; record and
	(Analogue and	compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock,
	Digital) and	a.m. / p.m., morning, afternoon, noon and midnight
	Estimation	
		Recognising intervals on an analogue clock
		Telling the time to the nearest minute on an analogue and digital clock Understanding Roman numerals on clocks
		Understanding Roman numerals on clocks Understanding am and pm
		Estimating time and using timers
7	Time	Compare durations of events
	Dunation	Time to the propert hour
	Duration	Time to the nearest hour Adding hours and minutes
		Subtracting hours and minutes
		Duration of time
		Finding unknown start and end times from given duration of events
		Comparing the duration of events
8	Securing the	Solve problems, including missing number problems, using number facts, place value,
	Four	and more complex addition and subtraction
	Operations	Add and subtract amount of money to give change, using both £and p
	with Whole	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in
	Number	which n objects are connected to m objects
	including	.,
	Problem	
	Solving	Securing addition and subtraction
		Applying multiplication and division, including working systematically
		Adding amounts of money
		Subtracting amounts of money Worded problems involving money
		vvolueu problems involving money
9	Place Value	Count up and down in tenths; recognise that tenths arise from dividing an object into 10
	and Decimals	equal parts and in dividing one-digit numbers or quantities by 10
	Ten Times	Ten times smaller than 1 is a tenth
	Greater and Ten	Recording tenths as decimal numbers
	Times Smaller	Finding unknown tenths from known wholes
		Finding unknown wholes from known tenths
10	Place Value	Recognise that tenths arise from dividing an object into 10 equal parts and in dividing
	and Decimals	one-digit numbers or quantities by 10



	Regrouping	Place value with decimal numbers Regrouping decimal numbers
11	Place Value and Decimals Estimation, Comparing and Rounding	Count up and down in tenths Compare and order numbers up to 1000 Order and compare place value of numbers with 1 decimal place Estimate decimal numbers Round decimal numbers to nearest whole numbers
12	Measures Measuring and Problem Solving	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Measuring and comparing lengths Measuring and comparing mass, volume and capacity Using and comparing mixed units Adding and subtracting involving measures Measure problems involving scaling
13	3-D Shape Building and Identifying Properties	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Building three-dimensional shapes Recognising three-dimensional shapes in different orientations Describing the faces of polyhedra Describing three-dimensional shapes





Year 4 Medium Term Planning Autumn

Number - Number and place value

Place Value - Order and Compare Numbers Beyond 1000

Rounding, Estimation and Magnitude

Counting in Multiples of 6, 7, 9, 25 and 1000

Number - Addition and Subtraction:

Securing Addition and Subtraction Mental Fluency

Securing Formal Written Addition and Subtraction Fluency

Problem Solving Including Measures to Apply Place Value, Mental Strategies and Arithmetic Laws

Number - Multiplication and division:

Multiplication and Division Facts (Times Tables)

Factor Pairs, Integer Scaling and Correspondence Problems

Multiply and Divide a One or Two-digit Number by 10 and 100

Number – Fractions:

Measurement:

Measure – Conversion of Units

Measures - Compare, Estimate and Calculate

Discrete and Continuous Data (Time Graphs), Including Application of Scales and Division

Perimeter

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Place Value – Order and Compare Numbers Beyond 1000	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) Understanding that 10 hundreds are equal to 1 thousand, 10 tens are equal to 1 hundred and 10 ones are equal to 1 ten Finding 1000 more or less than a given number Comparing and ordering 4-digit numbers Regrouping 4-digit numbers flexibly
2	Rounding, Estimation and Magnitude	Identify, represent and estimate numbers using different representations Round any number to the nearest 10, 100 or 1000 Estimate number magnitude Identify and estimate numbers using different representations Rounding numbers to the nearest 10, 100 or 1000 Comparing and rounding numbers to the nearest 10, 100 and 1000
3	Securing Addition and Subtraction Mental Fluency	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Mental strategy comparison – considering appropriateness and efficiency Developing estimation to support calculation Extending regrouping 'Think 100' and 'Think 1000' to adding 3- and 4-digit numbers Introducing equal sum as a mental strategy Regrouping the minuend (the number being reduced) for subtraction Introducing equal difference for mental subtraction Mixed addition and subtraction practice
4	Securing Formal Written Addition and	Add and subtract number with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate



	Subtraction	Formal addition method with no regrouping (thousands, hundreds, tens and ones)
	Fluency	Formal addition method with regrouping in hundreds, tens and ones
		Formal addition method with regrouping in hundreds, tens and ones causing a
		further thousand
		Finding missing numbers in formal written addition Revisiting formal written subtraction (decomposition)
		Formal written subtraction with regrouping of thousands (decomposition)
		Missing number and written subtraction problems
		Mixed practice
5	Counting in	Count in multiples of 6, 7, 9, 25 and 1000
	Multiples of 6,	
	7, 9, 25 and	Understand that counting up in mutliples is also repeated addition
	1000	Extend counting in multiples knowledge to 25s
	1000	
6	Multiplication	Recall multiplication and division facts for multiplication tables up to 12 x 12
	and Division	
	Facts (Times	Creating and regrouping arrays for multiplication (distributive law)
	Tables)	Learning multiplication facts through building arrays (developing recall)
	rabioo)	Rehearsing and recalling multiplication facts; making links and spotting patterns
		Rehearsing division facts
		Laws of divisibility to help with division facts
7	Footon Del	Strategies for calculating multiplication facts
7	Factor Pairs,	Recognise and use factor pairs
	Integer Scaling	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder
	and	correspondence problems such as n objects are connected to m objects
	Correspondenc	correspondence problems such as it objects are connected to iti objects
	e Problems	Understanding and finding factors.
		Solving integer scaling and correspondence problems
		Exploring correspondence problems
		Solving a range of correspondence problems
		Creating their own correspondence problems
8	Problem	Solve addition and subtraction two-step problems in contexts, deciding which
	Solving	operations and methods to use and why
	Including	Solve problems involving multiplying and adding, including using the distributive law
	Measures to	to multiply two digit numbers by one digit, integer scaling problems and harder
	Apply Place	correspondence problems such as n objects are connected to m objects
	Value, Mental	Addition and subtraction problems involving measures
	Strategies and	Exploring multiplication
	Arithmetic	Linking multiplication and division on the bar model
	Laws	Exploring division
	Laws	Rearranging multiplication and division models and word problems
		Two step problems involving all four operations
9	Multiply and	Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the
	Divide a One or	value of the digits in the answer as ones, tenths and hundredths
	Two-digit	
	Number by 10	Multiplying and dividing by 10 – investigating the effect
	and 100	Multiplying and dividing by 10 – understanding the effect
		Dividing by 10 – using decimal and fraction notation
		Multiplying and dividing by 100 – understanding the effect, using decimal notation
10	Measure -	Multiplying and dividing by 10 and 100 – applying learning and reasoning ideas Convert between different units of measure [for example, kilometre to metre; hour to
		minute]
	Conversion of	Timide of
	Units	Converting between units of length – understanding the calculations needed
		Converting between units of mass and capacity – understanding the calculations
		needed
		Converting hours to minutes
		Converting minutes to hours and hours to minutes
		Converting between units of time – understanding the calculations needed
11	Measures -	Estimate, compare and calculate different measures
	Compare,	



	Estimate and Calculate	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days Measuring, estimating and comparing length Measuring, comparing and estimating with mass and capacity Calculating with length, mass and capacity Calculating time addition (hours and minutes) Calculating time subtraction (hours and minutes) Calculating duration of time (hours and minutes)	
12	Discrete and Continuous Data (Time Graphs), Including Application of Scales and Division	Interpret and present discrete and continuous data using appropriate graphical methods, charts and time graphs Interpreting discrete data – reading scales on pictograms and bar charts Interpreting continuous data Presenting data – choosing the best way to present it	includ
13	Perimeter	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Revisiting existing knowledge about perimeter Calculating perimeter of rectangle shapes with missing sides Solving problems involving perimeter of rectilinear shapes with missing information Solving correspondence problems involving perimeter of rectilinear shapes	

Year 4 Medium Term Planning Spring

Number - Number and place value:

Decimal Numbers

Calculating with Decimals

Problem Solving involving Decimals to Two Decimal Places

Number - Addition and Subtraction:

Number - Multiplication and division:

Multiply Two and Three-digit Numbers by a One-digit Number Using a Formal Written Layout Divide Two and Three-digit Numbers by a One-digit Number Using a Formal Written Layout

Number - fractions:

Add and Subtract Fractions with the Same Denominator

Finding Fractions of Quantities

Fractions in the Context of Measure

Equivalent Fractions, Ordering and Comparing

Measurement:

Measure: Money

Geometery – Properties of shape:

Properties of Shape

Symmetry

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Properties of Shape	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
		Revisiting properties of lines
		Properties of shape – vocabulary focus
		Classifying quadrilaterals
	0	Drawing quadrilaterals
2	Symmetry	Identify lines of symmetry in 2-D shapes presented in different orientations
		Recognising reflective symmetry in simple shapes
		Recognising lines of symmetry in regular and irregular polygons
		Constructing symmetrical shapes
		Constructing quadrilaterals with a specific number of lines of symmetry
3	Decimal Numbers	Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten Round decimals with one decimal place to the nearest whole number
		Compare numbers with the same number of decimal places up to two decimal places Recognise and write decimal equivalents to 1/4; 1/2; 3/
		Place value with decimal numbers
		Regrouping decimal numbers
		Order and compare place value of numbers with up to 2 decimal places
		Estimate decimal numbers
		Decimal equivalences to tenths, hundredths, 1/4, 1/2, and 3/4 Round decimal numbers to nearest whole numbers
		x and ÷ by 10 and 100
4	Calculating	Add and subtract numbers with up to 4 digits using the formal written methods of
	with Decimals	columnar addition and subtraction where appropriate
	Dodiniais	Estimate and use inverse operations to check answers to a calculation



	1	T = 1
		Finding complements to 1
		Regrouping for addition
		Regrouping for subtraction
		Formal written addition
		Formal written subtraction
5	Magazza	Comparing strategies
3	Measure:	Estimate, compare and calculate different measures, including money in pounds and
	Money	pence
		Calculating with money – mental and written addition
		Calculating with money – mental and written addition Calculating with money – mental and written subtraction
6	Problem	Solve simple measure and money problems involving fractions and decimals to two
	Solving	decimal places
		dominal places
	involving	Non-routine problem solving using decimals – using a simpler case to solve a
	Decimals to	complex problem
	Two Decimal	Non-routine problem solving using decimals – finding all possibilities
	Places	Routine problem solving
7	Add and	Add and subtract fractions with the same denominator
	Subtract	
	Fractions with	Identify equal parts and whole and find complements of 1
	the Same	Add and subtract fractions with no regrouping
	Denominator	Add fractions with regrouping
		Subtract fractions with regrouping
8	Finding	Solve problems involving increasingly harder fractions to calculate quantities, and
	Fractions of	fractions to divide quantities, including non-unit fractions where the answer is a whole
	Quantities	number
		Scaling unit fractions to find fractions of quantities
		Exploring the models for finding fractions of quantities
		Using the whole and number of equal parts to find fractions of quantities
		Use fractional reasoning to solve whole unknown problems
		Relating fractions to comparison problems
9	Fractions in	Solve simple measure and money problems involving fractions and decimals to two
	the Context	decimal places
	of Measure	
		Recognising familiar fractions expressed as measures
		Ordering measures involving fractions
10		Mixed worded problems involving a range of measures
ן וט	Equivalent	Recognise and show, using diagrams, families of common equivalent fractions
	Fractions,	Compare and order a range of fractions
	Ordering	Showing equivalence with accurate diagrams
	and	Exploring families of common equivalent fractions
	Comparing	Create equivalent fractions by multiplying and dividing
11	Multiply Two	Multiply two-digit and three-digit numbers by a one-digit number using formal written
	and Three-	Layout
	digit	
	Numbers by	Multiplying multiples of ten by one-digit numbers
	a One-digit	Multiplying multiples of one hundred by one-digit numbers
	Number	Multiplying two and three-digit numbers by one-digit numbers using distributive law
	Using a	Formal written multiplication with no regrouping
	Formal	Formal written multiplication with regrouping in one column
	Written	Formal written multiplication with regrouping in one or more columns
10	Layout	
12	Divide Two	Use place value, known and derived facts to multiply and divide mentally, including:
	and Three-	multiplying by 0 and 1; dividing by 1; multiplying together three numbers
	digit	
	Numbers	Long division with no regrouping
	by a One-	Long division with regrouping hundreds into tens
	digit Number	Long division with regrouping hundreds into tens and tens into ones Mixed division rehearsal
	Number	renearsal

Ashtree Primary School and Nursery



Using	а
	•
Formal	
Written	
Layout	

Number and place value:

Roman Numerals to 100

Negative Numbers – Counting through Zero and Calculating in Context

Addition and Subtraction:

Application and Problem Solving – Developing Operation Sense

Multiplication and division:

Multiplication and Division Review
Application and Problem Solving – Developing Operation Sense

Fractions:

Fractions Review

Measurement:

Read, Write, Calculate and Convert Time on Analogue and Digital 12-Hour and 24-Hour Clocks Interpret and Present Continuous and Discrete Data, Solve Problems incorporating Measures

Geometry:

Angles

Properties of Triangles

Coordinates in the First Quadrant and Translations

Position and Direction, incorporating Angles and Plotting Points of a Shape

Find the area of rectilinear shapes by counting squares

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Read, Write, Calculate and Convert Time on Analogue and Digital 12-Hour and 24-Hour Clocks	Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days 12- and 24-hour clock Understanding and calculating duration Find unknown start or end times when duration is known Step 4: Converting hours, minutes and seconds Step 5: Converting days to weeks and months to years
2	Statistics Interpret and Present Continuous and Discrete Data, Solve Problems incorporating Measures	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 Understanding and interpreting discrete data Identifying increase and decrease in line graphs Time and distance graphs Line graphs with constant relationship between variables
3	Roman Numerals to 100	Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value



		Demon automorpho to 00
		Roman numerals to 20
		Roman numerals to 100
	No. 2	Reasoning with Roman numerals
4	Negative Numbers	Count backwards through zero to include negative numbers
		An introduction to negative numbers
	Counting	Counting backwards through zero
	through Zero	Solving simple problems involving negative numbers
	and Calculating	
	in Context	
5	Geometry	Identify acute and obtuse angles and compare and order angles up to two right angles
	Angles	by size
	Angles	Comparing and ordering angles using the benchmark of a right angle
		Identifying acute and obtuse angles
		Identifying acute and obtuse angles within geometric shapes
6	Geometry	Compare and classify geometric shapes, including quadrilaterals and triangles, based
	0000	on their properties and sizes
	Properties of	
	Triangles	Describing the properties of triangles
	mangioo	Classifying triangles (equilateral, scalene or isosceles)
		Classifying triangles according to more than one property
7	Geometry	Describe positions on a 2-D grid as coordinates in the first quadrant
		Describe movements between positions as translations of a given unit to the left / right
	Coordinates in	and up / down
	the First	
	Quadrant and	Using coordinates to describe position on a 2-D grid
	Translations	Describing movements between positions as translations
	Translations	
8	Geometry	Plot specified points and draw sides to complete a given polygon
	Position and	Plotting points to create polygons
	Direction,	Identifying coordinates to create polygons
	incorporating	
	Angles and	
	Plotting Points	
	_	
	of a Shape	
9	Multiplication	Recall multiplication and division facts for multiplication tables up to 12 x 12
	and Division	Use place value, known and derived facts to multiply and divide mentally, including:
	Review	multiplying by 0 and 1; dividing by 1; multiplying together three numbers
		Multiply two-digit and three-digit numbers by a one-digit number using formal written
		Layout
		Times tables review
		Multiplying and dividing by 10 / 100 and 1000
		Related times tables facts
		Short multiplication review
		Long division review
		Short division
10	Area	Find the area of rectilinear shapes by counting squares
		Find area of rectilinear shapes by counting squares
		Relate finding area of rectilinear shapes to arrays up to 12 x 12
		Problem solving with area
	Erections	Area and perimeter
	Fractions	Solve problems involving increasingly harder fractions to calculate quantities and
11	B •	
11	Review	fractions to divide quantities, including non-unit fractions where the answer is a whole number





		Adding and subtracting fractions beyond 1 Fractions of quantities with varied unknown values Deconstructing fraction problems involving measures
12	Application and Problem Solving	Count in multiples of 6, 7, 9, 25 and 1000 Count backwards through zero to include negative numbers Solve number and practical problems that involve all of the above and with increasingly large positive numbers
	Developing Operation Sense	Number sequences Number patterns and relationships Working systematically and finding all possibilities Solving logic problems





Year 5 Medium Term Planning Autumn

Number - Number and place value:

Place Value and Rounding of Large Numbers **Interpret Negative Numbers** Place Value of Numbers with up to Three Decimal Places **Prime and Composite Numbers** Solve Problems Involving Knowledge of Key Facts

Number - Addition and Subtraction:

Add and Subtract Using a Range of Strategies Add and Subtract Using Formal Written Methods

Number – Multiplication and division:

Multiply and Divide by 10, 100 and 1,000 Properties of Number – Multiples, Factors and Common Factors Multiply and Divide Mentally Formal Written Method for Multiplication Formal Written Method of Short Division **Compare and Order Fractions** Adding and Subtracting Fractions

<u>Number – Fractions:</u>

Equivalent Fractions

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Place Value and Rounding	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit
	of Large Numbers	Value of digits within large numbers Number magnitude and conservation of a million Comparing numbers Ordering numbers
		Counting in steps of powers of 10 Rounding numbers
2	Interpret Negative Numbers	Interpret negative numbers in context, count forwards and backwards Counting forwards and backwards across zero Reading scales involving negative numbers Application in context
3	Place Value of Numbers with up to Three Decimal Places	Read, write, order and compare numbers with up to 3 decimal places Recognising and comparing tenths and hundredths Comparing numbers with up to 2 decimal places Read, write and compare numbers with up to 3 decimal places Ordering numbers with up to 3 decimal places Rounding decimals (2 decimal places to the nearest whole number and to 1 decimal places



4	Multiply and	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
	Divide by 10, 100 and 1,000	ultiplying by 10, 100 and 1000
	100 and 1,000	Multiplying by 10, 100 and 1000 (including decimals)
		Dividing by 10, 100 and 1000 (including decimals) Multiplying and dividing by 10, 100 and 1000
5	Properties of	Identify multiples and factors, including finding all factor pairs of a number, and
	Number -	common factors of two numbers.
	Multiples,	I do natify in an annulation I an
	Factors and	Identifying multiples Comparing multiples and factors
	Common	Identifying all factors of a number
	Factors	Identifying common factors
6	Prime and	Know and use the vocabulary of prime numbers, prime factors and composite (non-
	Composite	prime) numbers
	Numbers	Establish whether a number up to 100 is prime and recall prime numbers up to 19
		Identifying what makes a number prime
		Prime or composite?
7	Multiply and	Building composite numbers from prime factors Multiply and divide numbers mentally drawing upon known facts
	Divide Mentally	Manuply and divide nambers mentally drawing aport known facts
		Revisit strategies for recalling known facts
		Use known multiplication facts to derive others Doubling and halving to use known facts
		Divisibly rules
		Regrouping to support division
8	Solve	Select an appropriate strategy for mental multiplication or division Solve number and practical problems that involve place value
8	Problems	Solve problems using knowledge of factors and multiples
	Involving	
	Knowledge of	Working backwards
	Key Facts	Find a starting point
9	Add and	Add and subtract numbers mentally with increasingly large numbers
	Subtract Using	
	a Range of	Using rounding for estimation
	Strategies	Using place value to add and subtract Regrouping to add and subtract
		Using equal sum for addition
		Using equal difference for subtraction
10	Add and	Selecting an appropriate strategy Add and subtract whole numbers with more than 4 digits, including using formal
	Subtract Using	written methods (columnar addition and subtraction)
	Formal Written	Light rounding for actimation
	Methods	Using rounding for estimation Column addition
		Column subtraction
44		Reasoning about column addition and subtraction
11	Formal Written Method for	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
	Multiplication	modified, morading forty manaphodulott for two digit fullipols
	manuphoation	Revision of formal written method for a 2 or 3-digit number by a 1-digit number
		Short multiplication of a 3- or 4-digit number by a single digit Long multiplication of a 3- or 4-digit number by a 2-digit number
		Comparing long multiplication and short multiplication
		Rehearsal and application of the formal written methods of short and long multiplication
12	Formal Written	Divide numbers up to 4 digits by a one-digit number using the formal written method
	Method of	of short division and interpret remainders appropriately for the context
	Short Division	
<u> </u>		



		Division as sharing
		Sharing and grouping
		Short division for numbers up to 4-digits
		Expressing remainders as fractions
		Expressing remainders as decimals
		Interpreting remainders
13	Equivalent	Identify, name and write equivalent fractions of a given fraction, represented visually,
	Fractions	including tenths and hundredths
	Traditions	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 = 11/5]
		110 - 010 - 1110]
		Identify and name fractions
		Recognise and create equivalent fractions
		Improper fractions and mixed numbers
		Convert improper fractions to mixed numbers
		Application of mixed numbers and improper fractions
		Equivalence of tenths and hundredths
		·
14	Compare and	Match equivalent fractions in a range of contexts
14	Compare and	Compare and order fractions whose denominators are all multiples of the same number
	Order	
	Fractions	Compare fractions to 12
		Compare fractions using visual representations
		Identify equivalent fractions where denominators are all multiples of the same number
		Compare fractions whose denominators are all multiples of the same number
		Order fractions whose denominators are all multiples of the same number
		Order fractions whose denominators are all multiples of the same number where
		simplification can be used
		Order fractions of amounts
15	Adding and	Add and subtract fractions with the same denominator and multiples of the same
	Subtracting	number
	Fractions	
	. 100110110	Add and subtract fractions with the same denominator
		Add and subtract fractions whose denominators are all multiples of the same number
		Add and subtract fractions >1 whose denominators are all multiples of the same number
		Application of adding and subtracting fractions
	ı	,, , , , , , , , , , , , , , , , , , , ,





Number - Number and place value:

Percentages Problem Solving – Percentages

Number – Addition and Subtraction:

Problem Solving – All Four Operations

Number - Multiplication and division:

Problem Solving – All Four Operations

Number - fractions:

Multiplying Fractions by Whole Numbers **Fraction Problem Solving**

Measurement:

Measure – Converting Units of Measure Area Volume and Capacity Perimeter

Geometery – Properties of shape:

3-D Shapes from 2-D Representations **Reflection and Translation** Estimate, Compare, Measure and Draw Angles **Identify Unknown Angles**

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Problem Solving – All Four	Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
	Operations	Drawing a model to support reasoning Interpreting statistical information Working backwards as a strategy Select an appropriate strategy to solve a problem Apply an appropriate strategy to solve a problem
2	Multiplying Fractions by Whole Numbers	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Multiply unit fractions by a whole number where the answer is <1 Multiply fractions by whole numbers where the answer is >1
		Evaluate the effectiveness of representations to solve problems Multiply mixed numbers by whole numbers Multiply fractions by whole numbers in a range of contexts



3	Fraction	This sequence applies the previous NC statements from 5LS13, 5LS14, 5LS15 and
	Problem	5LS17 (below) to ensure that pupils can combine and use this knowledge to solve
	Solving	problems
		Combining learning about fractions to solve a problem
		Using bar modelling to represent a problem involving fractions
4	Measure -	Convert between different units of metric measure (for example, kilometre and metre;
•	Converting	centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
	Units of	Solve problems involving converting between units of time
	Measure	
	Measure	Decimal and fraction equivalences of metric measure
		Converting from a larger unit to a smaller unit
		Converting a from a smaller unit to a larger unit
		Mixed conversion practice
5	Area	Scaling measures Calculate and compare the area of rectangles (including squares) using standard
5	Alea	units, square centimetres (cm2) and square metres (m2) and estimate the area of
		irregular shapes
		irregular shapes
		Develop strategies to estimate the area of irregular shapes
		Estimate area using standard units
		Calculate and compare the area of rectangles
		Find unknown measures when calculating area
		Work backwards to calculate measures from a given area
6	Volume and	Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)]
	Capacity	and capacity [for example, using water]
		Square numbers and area
		Build cube numbers
		Investigate the volume of cuboids
		Estimating volume and capacity
7	Percentages	Recognise the per cent symbol (%) and understand that per cent relates to "number of
		parts per hundred", and write percentages as a fraction with denominator 100, and as a
		decimal
		Understand that per cent relates to the number of perta per hundred
		Understand that per cent relates to the number of parts per hundred Express parts per hundred as fractions, decimals and percentages
		Use scaling to identify percentages
		Identify common equivalent fractions, decimals and percentages
		Calculate percentages by finding fractions of
		Develop strategies to calculate percentages
8	Problem	Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4,
	Solving	1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25
	Percentages	Compart hat we are frontiered and advised to the second second
		Convert between fractions, decimals and percentages
		Draw a model to calculate a percentage Draw a model to calculate the whole
		Solve a range of percentage problems
9	3-D Shapes	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations
	from 2-D	
	Representa	Define cuboids and cubes
	tions	Understand nets
40	P. (1. (1.	Draw nets using given measurements
10	Reflection	Identify, describe and represent the position of a shape following a reflection or
	and Translation	translation, using the appropriate language, and know that the shape has not changed
	1141151411011	Translate shapes
		Reflect patterns and shapes
		Translate and reflect in the first quadrant
11	Perimeter	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and
		Metres
		Calculate the perimeter of rectilinear figures (rectangles and squares)
		Calculate the perimeter of composite rectilinear shapes



		Solve problems using knowledge of perimeter and area
12	Estimate, Compare,	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
	Measure and Draw	Draw given angles, and measure them in degrees
	Angles	Recap of prior angles learning including right angles and turns
		Name, compare and order acute, obtuse, reflex and right angles
		Measure angles accurately with a protractor
		Estimate angles in degrees and check by measuring
		Draw angles
13	Identify	Identify:
	Unknown	- angles at a point and one whole turn (total 360°)
	Angles	- angles at a point on a straight line and ½ a turn (total 180°)
		- other multiples of 90
		Angles in a right angle and on a straight line
		Angles around a point or whole turn





Number and place value:

Roman Numerals

Addition and Subtraction:

Solving Problems involving the Four Operations

Multiplication and division:

Formal Division and Multiplication in Increasingly Complex Problems Strategies for Multiplication and Division (Mental and Written) Solving Problems involving the Four Operations

Fractions:

Solving Problems involving Scaling by Simple Fractions and Rates Fractions, Decimals and Percentages - Problem Solving

Measurement:

Conversion of Imperial and Metric Units of Measure Reading Timetables and Calculating with Time Statistics - Solve Comparison, Sum and Difference Problems using Information in a Line Graph Statistics - Interpreting and Evaluating Information Presented in Charts and Tables

Geometry:

Distinguish between Regular and Irregular Polygons Use Properties of Rectangles

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

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Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Formal Division and Multiplication in Increasingly Complex Problems	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 Divide numbers up to 4 digits by one-digit numbers using the formal written method of short division and interpret remainders appropriately for the context Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
		Interpreting remainders Creating word problems involving different division contexts Applying formal multiplication to solve problems
2	Strategies for Multiplication and Division	Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates
		Revisiting and deepening understanding of remainders Solving missing number division problems Multiplication and division – developing strategy discussion and operational sense
3	Solving Problems involving	Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates Use all four operations to solve problems involving measure [for example, length, mass,



	Scaling by Simple	volume, money] using decimal notation including scaling
	Fractions and	Model scaling and correspondence problems
	Rates	Scaling by simple fractions Scaling by simple rates
		Scale drawings
4	Conversion of	Understand and use approximate equivalences between metric units and common
	Imperial and	imperial units such as inches, pounds and pints Use all four operations to solve problems involving measure [for example, length, mass,
	Metric Units of Measure	volume, money] using decimal notation including scaling
	modearo	Metric conversion
		Metric scale drawings
		Imperial units of measure – pints
		Imperial units of measure – inches Imperial units of measure – pounds
5	Fractions,	Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4,
	Decimals and	1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25
	Percentages	Read and write decimal numbers as fractions [for example, 0.71 = 71/100] Recognise and use thousandths and relate them to tenths, hundredths and decimal
	Problem Solving	equivalents
	Colving	Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
		Revising proportions and scaling Problem solving using scales
		Comparing proportions represented differently
		Solving multi-step problems
6	Reading Timetables and	Complete, read and interpret information in tables, including timetables
	Calculating	Exploring what we know about telling the time and converting units of time
	with Time	Reading and interpreting timetables
		Completing missing information in timetables Solving problems involving completing and reading timetables and calculating with time
7	Solving	Solve problems involving addition, subtraction, multiplication and division and a
	Problems	combination of these, including understanding the meaning of the equals sign
	involving the Four	Exploring confusing language – dangers of trigger words and distractors
	Operations	Focus on structure – translating language into a mathematical model What could the question be?
		Revisiting working backwards
8	Distinguish	Distinguish between regular and irregular polygons based on reasoning about equal
	between	sides and angles
	Regular and Irregular	Classify polygons as regular or irregular
	Polygons	Revisit 2-D shape vocabulary including regular and irregular Construct regular polygons, including using a protractor
0		
9	Use Properties of Rectangles	Use the properties of rectangles to deduce related facts and find missing lengths and Angles
	or rectangles	
		Calculating missing lengths in rectangles and shapes or patterns including rectangles Using knowledge of rectangles and angles to calculate missing angles
10	Statistics	Solve comparison, sum and difference problems using information presented in a line
	Colum	Graph
	Solve Comparison,	Use data to make comparisons and calculate sum or difference
	Sum and	Use information in a line graph to compare and calculate
	Difference	Solve problems using information in line graphs
	Problems using	
	Information in a	
	Line Graph	
		I .





11	Statistics	Begin to decide which representations of data are most appropriate and why
	Interpreting and Evaluating Information Presented in Charts and Tables	Compare representations of data in text and tables Choose appropriate data representations Evaluate different data representations
12	Roman Numerals	Read Roman numerals to 1000 (M) and recognise years written in Roman numerals Read and write Roman numerals to 1000 Recognising times and years involving Roman numerals Investigating and using Roman numerals in problems





Year 6 Medium Term Planning Autumn

Number - Number and place value:

Place Value Multiply and Divide by 10, 100 and 1,000 **Choosing Effective Mental Calculation Strategies** Application of Factors, Multiples and Primes **Calculating Percentages**

Number - Addition and Subtraction:

Choosing Effective Mental Calculation Strategies Problem Solving with Four Operations

<u>Number – Multiplication and division:</u>

Problem Solving with Four Operations Multiply and Divide by 10, 100 and 1,000 Formal Written Method of Short Division Formal Written Method of Multiplication

<u>Number – Fractions</u>

Equivalent Fractions Comparing and Ordering Fractions Adding and Subtracting Fractions Fraction and Decimal Equivalents Fractions, Decimals and Percentages

Measurement:

Area of Parallelograms and Triangles

Geometery – Properties of shape

Properties of Shape

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Place Value	Solve number problems and practical problems that involve place value
		Read and write large numbers
		Counting and regrouping large numbers
		Comparing and ordering numbers
		Comparing numbers including to 3 decimal places
		Negative numbers
		Rounding numbers
2	Multiply and	Identify the value of each digit to three decimal places and multiply and divide numbers
	Divide by 10,	by 10, 100 and 1,000 giving answers up to three decimal places
	100 and 1,000	
	100	Develop fluency of multiplying and dividing by 10, 100 and 1000
		Application in the context of measure



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on of their proximity to 0, half or 1
a common denominator
xts
erent denominators and mixed numbers, using the
ow addition of fractions
ow subtraction of fractions
s including mixed numbers ng fractions
nd calculate decimal fraction equivalents [for
on [for example, 3/8]
in the example, eve i
een simple fractions, decimals and percentages,
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plication
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a 3- or 4-digit number by a 1-digit number
3- or 4-digit number by a 2-digit number
a 3- or 4-digit number by a 2-digit number a 3- or 4-digit number by a 2-digit number
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		Formal written method of multiplication involving numbers with up to 2 decimal places multiplied by a 1-digit number Application of the formal written method for multiplication
13	Area of Parallelograms and Triangles	Calculate the area of parallelograms and triangles Calculating the area of rectilinear and composite shapes (Year 5 revision) Finding the area of right-angled triangles Calculating the area of triangles Calculating the area of parallelograms Solving problems involving area of rectangles, triangles and parallelograms
14	Formal Written Method of Short Division	Use written division methods in cases where the answer has up to two decimal places Understanding short division Short division where answers have up to 2 decimal places Short division with decimal remainders up to 2 decimal places Prove decimal fraction equivalents using short division
15	Properties of Shape	Compare and classify geometric shapes based on their properties and sizes Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Recognise, describe and build simple 3-D shapes, including making nets Using the language of 2-D shapes Classifying 2-D shapes – triangles Classifying 2-D shapes – quadrilaterals Parts of circles Using the relationship between radius and diameter to solve problems Naming and identifying the properties of 3-D shapes Building 3-D shapes from nets





Year 6 Medium Term Planning Spring

Number - Number and place value:

Ratio and Proportion

<u>Number – Addition and Subtraction:</u>

Number - Multiplication and division:

Formal Written Method for Long Division

Algebra:

Order of Operations and Algebra Algebra and Sequences

Number - fractions:

Multiplying Fractions Dividing Proper Fractions by Whole Numbers Fraction Problem Solving

Measurement:

Exploring Relationships Between Perimeter and Area Interpret Line Graphs and Pie Charts Measures Volume

Geometery – Properties of shape:

Recognise and Find Angles Reflection and Translation

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Order of Operations and Algebra	Use their knowledge of the order of operations to carry out calculations involving the four operations Use simple formulae Express missing number problems algebraically
		Why we need the order of operations Develop order of operations and start to write formulas Deepen understanding of order of operations – abstract calculations Considering division and indices (powers) in order of operations Connecting algebraic equations to known models (addition and subtraction) Connecting algebraic equations to known models (multiplication and division) Simplifying equations to find the unknown Solving word problems involving algebra Solving problems involving algebra – abstract calculations
2	Formal Written	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division (and short division where appropriate) and interpret



	Method for	remainders as whole number remainders, fractions, or by rounding, as appropriate for
	Long Division	the context
		Comparing short and long division layout
		Long division for numbers up to 4 digits
		Interpreting remainders as whole numbers
		Expressing remainders as fractions
3	Exploring	Expressing remainders as decimals Recognise that shapes with the same areas can have different perimeters and vice
3	Relationships	Versa
	Between	
	Perimeter and	Consolidate understanding of perimeter
	Area	Consolidate finding the area of rectilinear shapes, parallelograms and triangles
	711001	Investigate shapes with the same area but different perimeters and vice-versa
4	Recognise	Solve problems involving area and perimeter Recognise angles where they meet at a point, are on a straight line, or are vertically
7	and Find	opposite, and find missing angles
	Angles	opposite, and meaning angles
	Aligios	Recognise and name angles
		Investigate vertically opposite angles
5	Reflection	Find missing angles from known facts Draw and translate simple shapes on the coordinate plane, and reflect them in the
3	and	axes
	Translation	unos
	Translation	Draw and label axes in all four quadrants
		Plot positions on the full coordinate grid
		Draw and label shapes in all four quadrants
		Translate shapes in all four quadrants Reflect shapes in all four quadrants
6	Multiplying	Multiply simple pairs of proper fractions, writing the answer in its simplest form
	Fractions	[for example, $1/4 \times 1/2 = 1/8$]
		Understand the effect of multiplying with proper fractions
		Represent multiplication with simple pairs of proper fractions Multiply simple pairs of proper fractions
		Apply multiplication of fractions in a range of contexts
7	Dividing	Divide proper fractions by whole numbers [for example, $13 \div 2 = 16$]
	Proper	
	Fractions by	Understand the relationship between fractions and division
	Whole	Understand division of fractions by whole numbers in context Unitary fractions divided by whole numbers - word problems
	Numbers	Non-unitary fractions divided by whole numbers
		Solving mixed problems
8	Fraction	This sequence applies the previous NC statements from 6LS6, 6LS7, 6LS8, 6LS21 and
	Problem	6LS22 (below) to ensure that pupils can combine and use this knowledge to solve
	Solving	problems
		Reason about fractions in problems
		Solve mixed fraction problems
9	Ratio and	Solve problems involving the relative sizes of two quantities where missing values can
	Proportion	be found by using integer multiplication and division facts
		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
		Simplifying ratios
		Different types of comparisons: part to part and part to whole
		Solving problems with ratio – given the ratio and one part or the whole
		Solving problems with ratio – given the ratio and the difference Solving problems with ratio – given the parts
		Scaling problems Scaling problems
		Scale factors
10	Volume	Calculate, estimate and compare volume of cubes and cuboids using standard units,
		including centimetre cubed (cm3) and cubic metres (m3), and extending to other units



		[for example mm3 and km3]
		Recognise when it is possible to use formulae for area and volume of shapes
		Visualise and calculate the volume of cubes
		Calculate and compare volumes
		Estimate volume
11	Measures	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 three decimal places
		Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
		Convert between miles and kilometres
		Clarify what is known about measures and converting them
		Apply knowledge of measures and conversions to solving problems
		Explore the link between miles and kilometres (imperial and metric units of length)
12	Statistics -	Interpret and construct pie charts and line
	Interpret Line	graphs and use these to solve problems
	Graphs and	Understanding pie charts
	Pie Charts	Interpreting a simple pie chart
		Reviewing line graphs
		Interpreting comparison graphs
40	Almahanand	Conversion graphs
13	Algebra and	Generate and describe linear number sequences
	Sequences	Find pairs of numbers that satisfy an equation with two unknown variables Enumerate possibilities of combinations of two variables
		Liturierate possibilities of combinations of two variables
		Build and describe linear sequences
		Identify missing terms - start and end number given
		Find pairs of numbers that satisfy an equation with two unknown variables



Year 6 Medium Term Planning Summer

Algebra:

Further Algebra

Addition and Subtraction:

Financial Maths and Enterprise

Multiplication and division:

Financial Maths and Enterprise

Measurement:

Statistics - Calculate and Interpret Mean Average **Constructing Pie Charts Statistical Representations**

Problem-solving and reasoning should be integrated into all activities.

Opportunities to explain and justify opinions and make explanations should be incorporated into planning.

Block	Strand	Learning Objectives – End of Year targets to broken down in weekly plans
1	Statistics	Calculate and interpret the mean as an average
	Calculate and	Understand and calculate the mean
	Interpret Mean	Apply understanding of the mean
	Average	
2	Application of	Draw 2-D shapes using given dimensions and angles (Year 6)
	Previous	Measure, compare, add and subtract: lengths (m/cm/mm) (Year 3)
	Years'	Draw given angles, and measure them in degrees (o) (Year 5)
	Learning	Read Roman numerals to 1000 (M) and recognise years written in Roman numerals (Year 5)
		Read, write and convert time between analogue and digital 12 and 24-hour clocks (Year 4)
		Complete, read and interpret information in tables, including timetables (Year 5)
		Draw 2-D shapes including scaling
		Revise Roman numerals
		Revise reading, writing, converting and applying understanding of time
3	Application of	Solve problems involving addition, subtraction, multiplication and division
	Known Facts	Use estimation to check answers to calculations and determine, in the context of a
	and	problem, an appropriate degree of accuracy
	Calculation	
	Strategies	Identifying what we already know and how to use it (arithmetic focus)
		Avoiding common errors when calculating mentally
	0 ((Using estimation to check answers are reasonable
4	Constructing	Interpret and construct pie charts and line graphs and use these to solve problems
	Pie Charts	Desidie a substhess a pie shout in appropriate
		Deciding whether a pie chart is appropriate
		Constructing simple pie charts. Part one – the process and constructing circles
		Constructing simple pie charts. Part two – dividing up a circle into the segments





5	Statistical	Interpret and construct pie charts and line graphs and use these to solve problems
	Representation	
	s	Is all data fair?
		More misleading graphs
		Considering data which distorts
		Applying skills
6	Further	Generate and describe linear number sequences
	Algebra	
		Building sequences to generalise
		Linking sequences and algebra
		Describe the relationship between term and term number
7	Financial	Solve number and practical problems
	Maths and	Solve problems involving addition, subtraction, multiplication and division
	Enterprise	
	·	Introduction to budgeting
		Enterprise lessons
		Introduction to the project
		Initial business ideas and market research
		Product planning
		Creating a business plan and pitching
		Making it, marketing it and selling it
		Evaluation and reflection
8	Maths	Reflect on what you are like as a mathematician
	Preparation for	Show your calculation strategy choices
	KS3	Show connections and depth of understanding