FAR			Maths Ov	verview	
SSS LITT	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer
Pre 3 Nursery			Spatial Awareness/ Positional Langua         Moves their bodies and toys around of spaces         Begins to remember their way around         Shape         Chooses puzzle pieces and tries to fit t         Degins to say numbers in order, some (ordinality)         Pattern         Joins in and anticipates repeated soun         Measure         Beginning to anticipate times of the data	bjects and explores fitting into familiar environments them in of which are in the right order	Spatial Awareness/ Po Responds to some spat Explores how things loc are near or far away Shape Recognises that two ok Makes simple construct Counting Cardinality (how many) three objects from a gr Beginning to notice nul Beginning to notice nul Beginning to count on the Comparing Quantities Beginning to compare a words like more, lots of Pattern Is interested in what hat Measure Explores differences in Beginning to understar
Nursery	Counting Reciting numbers up to 3. Say one numbers Mark Making Experiment with their own symbols and Shape Select shapes appropriately: flat surfat for roof etc. Subitising Develop fast recognition of up to 3 ob individually Linking Numerals and Amounts Links numerals and amounts up to 3 Positional Language Understand position through words and words in play	nd marks aces for building, a triangular prisn Djects without having to count the	<ul> <li>4, 5. Show 'finger numbers' up to 5. Calast number reached when counting a many there are in total</li> <li>Comparing Quantities and Numbers Compare quantities using language: 'm</li> <li>Shape Combine shapes to make new ones – a</li> <li>Experiment with their own symbols and another symbols another symbols and another symbols and another symbols and another symbols and another symbols another symbols and another symbols and another</li></ul>	ardinal Principle – know that the small set of objects tells you how nore than', 'fewer than' an arch, a bigger triangle etc. nd marks stick, leaf, stick, leaf. Notice and	Counting

# · 1

# Summer2

**ositional Language** tial and positional language

ok from different viewpoints including things that

bjects have the same shape

ctions

r) – in everyday situations, takes or gives two or roup

imerals (number symbols)

their fingers

and Numbers and recognise changes in numbers of things, using or 'same'

appens next using the pattern of everyday routines

size, length, weight and capacity

nd some talk about immediate past and future

o 10. Cardinal Principle – know that the last n counting a small set of objects tells you how many

own symbols and marks as well as numerals

and Numbers ing language: 'more than', 'fewer than'

e 2D and 3D shapes (for example, circles, nd cuboids) using informal and mathematical ners', 'straight', 'flat', 'round'. Partitioning and nake new shapes. Predicting, moving and rotating shapes

#### Pattern

Talk about and identify patterns, using informal language

#### Measure

Counting

Make comparisons between objects relating to size

Problem Solving and Composition of Numbers Solve real world mathematical problems with numbers up to 2

Measure Make comparisons between objects relating to length

# Problem solving and Composition of Numbers

Solve real world mathematical problems with numbers up to 3

# Positional Language

Understand position t routes and locations, a familiar route, giving

#### Pattern

Begin to describe a se as 'first', 'then' ... and events in everyday life

Measure Make comparisons be

## Problem solving and

Solve real world math Number Bonds Autor recall number bonds f 0-5 (including subtract

#### Time

**Experience** measuring timers and calendars

# Problem solving and of Numbers

Number 10 shows awareness that composed of smaller exploring portioning in ways with a wide rang Explore and work out mathematical problem signs and strategies of choice including (whe appropriate) standard tallies and "+" or "-" of and double

Counting	
Counts objects, actions and sounds	Co
<ul> <li>recites numbers to 10 and</li> </ul>	— s
beyond and back again	- s 10
Cardinal counting	<b>Sul</b> Sul
	Sub

Counts out up to 10 objects from a 5 larger group

## Linking Numerals and Amounts

Link the number symbol (numeral) with its cardinal number value matches the numeral with a group of items to show how many there are up to 10

## Measure

Reception

Compare length, weight and capacity – becomes familiar with measuring tools in everyday experiences and play

#### **Problem solving and Composition** of Numbers

Numbers 2 & 3 – shows awareness that numbers are composed of smaller numbers, exploring portioning in different ways with a wide range of objects

Begins to explore and work out mathematical problems, using signs and strategies of their own choice including (when appropriate) standard numerals, tallies and "+" or "-" odd or even and double

Counting unts objects, actions and sounds sequencing numerals in order 0-

bitising ibitise – numbers to 4 and maybe

## Shape and Space

Select, rotate and manipulate shapes to develop spatial reasoning skills – uses informal language, analogies & mathematical terms to describe shapes. Uses spatial language, including following and giving directions, using relative terms and describing what they see from different viewpoints

## Counting

Count beyond 10 – recognising the pattern of the counting system

#### **Comparing Quantities and** Numbers

Compare Numbers – uses number names and symbols, showing interest in large numbers. Estimates of things, showing understanding of relative size. Odd and even, fair and unfair when sharing quantities

## Time

Order and sequence events using everyday language.

## Subitising

Subitise - conceptually subitise Continue, copy and create larger numbers by subitising repeating patterns – create and smaller groups within the number recreate repeating patterns, beyond AB patterns and identify

Comparing Quantities and Numbers

Understand the 'one more than/one less than' relationship between consecutive numbers - in practical activities, adds 1 and subtracts 1 with numbers to 10. Number lines. Staircase patterns.

# Pattern

Continue, copy and create repeating patterns – spots patterns in the environment, beginning to identify 'rule' (including AB, ABB, ABBC)

#### Shape and Space

Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can – enjoys composing and decomposing shapes combine to make other shapes. Uses own ideas to make models of increasing complexity, selecting blocks needed, solving problems, and visualising what they will build. Investigates turning and flipping objects in order to make shapes fit and create models; predicting and visualising how they will look (spatial reasoning)

Problem solving and Composition of Numbers

the unit of repeat Measure Compare length, weight and capacity – problems involving

prediction and comparisons of length, weight or capacity, paying attention to fairness and accuracy

#### Shape and Space

Pattern

Select, rotate and manipulate shapes in order to develop spatial reasoning skills – create simple maps of familiar/imaginative environments with landmarks

Problem solving and Composition of Numbers

Numbers 8 & 9 – shows awareness that numbers are composed of smaller numbers, exploring portioning in different ways with a wide range of objects. Explore and work out mathematical problems, using signs and strategies of their own choice including (when appropriate) standard numerals, tallies and "+" or "-" odd or even and double

-	alone using a sentence. Discuss e 'in front of' and 'behind'. Describe
•	nts, real or fictional, using words such t comes next. Recall a sequence of
etween objects	relating to weight and capacity
Composition of	
	ems with numbers up to 5
matically for numbers	Measure
g time with	Compare length, weight and capacity – problems involving prediction and discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy
composition	
t numbers are numbers, in different ge of objects.	<b>Statutory ELG: Number:</b> Have a deep understanding of number to 10, including the composition of each number.
, ms, using of their own en d numerals, odd or even	Subitise (recognise quantities without counting) up to 5.
	Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.
	<b>Statutory ELG: Numerical Patterns:</b> Verbally count beyond 20, recognising the pattern of the counting system.
	Compare quantities up to 10 in different contexts, recognising when 1 quantity is greater than,

		Experience measuring time with	Numbers 6 & 7 - shows awareness			less than, or the same as the other
		timers and calendars	that numbers are composed of			quantity.
		Problem solving and Composition	smaller numbers, exploring portioning in different ways with a			
		of Numbers	wide range of objects. Explore and			
		Numbers 4 & 5 -shows awareness	work out mathematical problems,			Explore and represent patterns
		that numbers are composed of	using signs and strategies of their			within numbers up to 10 including
		smaller numbers, exploring	own choice including (when			evens and odds, double facts and
		portioning in different ways with a	appropriate) standard numerals,			how quantities can be distributed
		wide range of objects. Explore and	tallies and "+" or "-" odd or even			equally.
		work out mathematical problems,	and double			
		using signs and strategies of their				
		own choice including (when				
		appropriate) standard numerals,				
		tallies and "+" or "-" odd or even				
		and double				
	Number and Place Value	Length, mass and weight	Number and Place Value	Measurement - Length, Mass and	Measurement – Capacity/Volume	Money
	• To read and write numbers	Compare and describe lengths,	• Identify ten more and ten less.	Weight	Record capacity and volume	Recognise and know the value
	from 0-20.	heights and weights.	Order numbers to 50.	Measure and record	using non-standard and	of different coins and notes.
	Identify one more and one less	Measure and begin to record	Recognise the place value of	lengths/heights.	standard units.	Solve practical problems relating t
	of a given number.	lengths, heights and weights.	numbers beyond 20 (tens and	Measure and record	Solve practical problems	money.
	• To complete a number	Solve practical problems	ones)	mass/weight.	relating to capacity/volume.	Addition and subtraction
	sequence (forwards and	relating to lengths and weight.	Read and write numbers from	<ul> <li>Solve practical problems for lengths, heights and</li> </ul>	Fractions	Represent and use number
	backwards).	Capacity and Volume	1 to 20 in numerals and words.	lengths, heights and	<ul> <li>Recognise, find and name a</li> </ul>	<ul> <li>Represent and use number bonds and related subtraction</li> </ul>
		Compare and describe	Use the language of equal to,     mare then and less then	masses/weights.	• half as one of two equal parts	facts within 20.
	Addition and Subtraction	capacity/volume (e.g. full,	more than and less than.	Money	of a quantity.	Subtract one-digit and two-
	Read, write and interpret	empty, half full)		<ul> <li>Recognise and know the value</li> </ul>	<ul> <li>Recognise, find and name a</li> </ul>	digit numbers to 20 using
	mathematical statements (+, -	<ul> <li>Measure and begin to record</li> </ul>	Addition and subtraction	of different coins and notes.	quarter as one of four equal	'difference' as find how many
	and =)	capacity.	Represent and use number	Solve practical problems	parts of a quantity.	more to make.
	• Number bond facts to 10 and		bonds and related subtraction	relating to coins.		Solve problems relating to
	20.	Money	facts within 20.	J. J	Multiplication and Division	finding the difference.
H	• Add and subtract numbers.	• Recognise and know the value	<ul> <li>Subtract one-digit and two-</li> </ul>		Solve one step problems	
	Solve simple one-step	of different coins.	digit numbers to 20 using	Position and Direction	involving multiplication and	Number and Place Value
Year	problems involving addition		'difference' as find how many	Describe position, direction	division by calculating the	Identify ten more and ten less
>	and subtraction.	Time	more to make.	and movements using half,	answer using concrete objects,	Order numbers to 50.
		Sequence events in	Solve problems relating to	quarter and three quarter	pictorial representations and	Recognise the place value of
	2D/3D shapes	chronological order.	finding the difference.	turns.	arrays with teacher support.	numbers beyond 20.
	Recognise and name common 2D	Recognise and use language		Time	Counting multiplies of twos,     fives and tens	Read and write numbers from     the 20 in more and an dynamic
	and 3D shapes.	relating to dates, including	ap and ap change	Time	fives and tens.	1 to 20 in numerals and words
	Sequencing and Sorting	days of the week, weeks, months and years.	2D and 3D Shapes	• Tell the time to the hour and half past.	<ul> <li>Recall and use doubles/halves of all numbers to 10.</li> </ul>	Recognise the place value of
	<ul> <li>Recognise and create repeating</li> </ul>		<ul> <li>Begin to recognise properties</li> <li>af 2D and 2D shapes</li> </ul>	<ul> <li>Draw times on a clock.</li> </ul>	of all humbers to 10.	numbers beyond 20 (tens and
	patterns with numbers, objects	time.	of 2D and 3D shapes.	<ul> <li>Measure and begin to record</li> </ul>		<ul><li>ones).</li><li>Use the language of equal to,</li></ul>
	and shapes.	unie.		time.		more than and less than
	<ul> <li>Identify odd and even</li> </ul>			Solve practical problems		more than and less than
	numbers.			relating to time.		Statistics
	Sort objects, number and					<ul> <li>Ask and answer questions by</li> </ul>
	shapes.					comparing categorical data.
	• Sort objects, number and					
	shapes to a given criterion and					
	their own.					

	Number and Place Value	Addition and Subtraction	Multiplication and Division	Geometry – properties of shapes	Measurement – length and height	Measurement – time
	<ul> <li>Counting forwards and</li> </ul>	Add and subtract numbers	• Division (sharing equally,	Recognise and describe	Compare length and	• Tell time to the hour
	backwards to 20, 50 and	using concrete objects,	division into equal groups	the properties of 2d	height	Tell time to half hour
	compare numbers	pictorial representations	and working with a	shapes (including the	Measure length (cm and	• Tell time to ¼ and ¼ to
	Represent numbers to 100	and mentally including: a	remainder)	number of sides)	M)	Tell time to 5 minutes
	• Use a place value chart	2-digit number and ones; a	Complete multiplication	Draw Lines of symmetry	Compare and order lengths	Write the time
	Compare and order	2-digit number and tens; 2,	sentences	<ul> <li>Identify and describe the</li> </ul>	<ul> <li>Complete 4 operations (+, -</li> </ul>	<ul> <li>Understand hours and days</li> </ul>
	numbers	2-digit numbers; adding 3,	Complete sums using	properties of 3d shapes,	, x /) with length	<ul> <li>Find durations of time</li> </ul>
	Use place value and	1-digit numbers	arrays	including the number of	<ul> <li>Problem solving with</li> </ul>	
	number facts to solve	Add take away numbers	Double numbers	edges, vertices and faces	<u> </u>	Compare durations of time
	problems	crossing 10	<ul> <li>Times table 2, 5, 10</li> </ul>	Compare and sort	length	
		Add take away numbers		common 2d and 3d shapes	Competer position and direction	Measurement - mass, capacity
	Recognise the place value	not crossing 10	<ul> <li>Making and sharing equal</li> </ul>		Geometry – position and direction	and temperature
	of each digit in a 2-digit		groups	and everyday objects	Use mathematical	Develop understanding of
	number (Tens/Units)	Add 3-digit numbers	• Divide 2, 5, 10	(2D/3D shapes)	vocabulary to describe	weight and mass
	• Count in steps of 2, 5 and		Odd and even numbers	Sort and make patterns	position, direction and	Measure and compare
	10 from 0 and in tens from	Measurement – Money		with 2D shapes	movement, including	mass
r 2	any number forward and	Recognise coins (p and £)	Statistics	-	movement in a straight	Measure mass in grams
Year	backward	Recognise notes	Making tally charts	Fractions	line. (Position and	and Kg
ř	Read and write numbers to	Count money (coins and	Interpret tally charts	Work with parts and	movement)	Develop understanding of
	at least 100 in numerals	notes)	Draw and interpret	wholes	Distinguish between	capacity and volume
	and in words	<ul> <li>Make amounts/totals</li> </ul>	pictograms	Find and recognise half	rotation as a turn and in	Measure and compare
		Compare money	<ul> <li>Complete block diagrams</li> </ul>	Find and recognise a	terms of right angles for	volume
	Addition and Subtraction	<ul> <li>Find the difference/give</li> </ul>		quarter	quarter, half and three-	Measure in ml and l
	<ul> <li>Addition and subtraction</li> </ul>	change		<ul> <li>Find and recognise a third</li> </ul>	quarter turns (clockwise	Complete 4 operations (+, -)
	to 20 (bonds)	<ul> <li>Understand the value of</li> </ul>		Recognise equivalent	and anti-clockwise	, x /) with mass and volume
	Compare number	coins		fractions ½ and 2/4	<ul> <li>Making patterns with</li> </ul>	<ul> <li>Develop understanding of</li> </ul>
	sentences	Add coins together		• Find ¾	shapes	temperature
	Bonds to 100 (tens)	• Use p and £ sign				Measure and compare
	Add take away 1	• 2 step problems				temperature in C.
	• 10 more 10 less					
	<ul> <li>Add and take away 10</li> </ul>					
	Understand 10 more10					
	Understand 10 more10     less					
	Understand 10 more10					
	Understand 10 more10 less     Check calculations  Place Value:	Counting Multiplication Tables (3x	Place Value Mental + & -	2d & 3d shape – sorting	Multiplication facts – statistics	Revision of:
	Understand 10 more10 less     Check calculations  Place Value:     Read and write numbers to	4x)	• Find 1, 10 or 100 more or	Recognise 3-D shapes in	Recall and use	Place value in the context of
	Understand 10 more10 less     Check calculations  Place Value:     Read and write numbers to at least 1000	<ul><li>4x)</li><li>Count from 0 in multiples of 4.</li></ul>	• Find 1, 10 or 100 more or less than a given number.	<ul> <li>Recognise 3-D shapes in different orientations and</li> </ul>	Recall and use     multiplication and division	-
	Understand 10 more10 less     Check calculations  Place Value:     Read and write numbers to	<ul><li>4x)</li><li>Count from 0 in multiples of 4.</li><li>Recall and use multiplication and</li></ul>	• Find 1, 10 or 100 more or	Recognise 3-D shapes in	Recall and use     multiplication and division     facts for the 3, 4 and 8	Place value in the context of measures
	Understand 10 more10 less     Check calculations  Place Value:     Read and write numbers to at least 1000	<ul><li>4x)</li><li>Count from 0 in multiples of 4.</li></ul>	• Find 1, 10 or 100 more or less than a given number.	<ul> <li>Recognise 3-D shapes in different orientations and</li> </ul>	Recall and use     multiplication and division	Place value in the context of measures Mental calculation in a variety of
	<ul> <li>Understand 10 more10 less</li> <li>Check calculations</li> <li>Place Value:         <ul> <li>Read and write numbers to at least 1000</li> <li>Recognise place value of</li> </ul> </li> </ul>	<ul><li>4x)</li><li>Count from 0 in multiples of 4.</li><li>Recall and use multiplication and</li></ul>	<ul> <li>Find 1, 10 or 100 more or less than a given number.</li> <li>Count from 0 in multiples</li> </ul>	<ul> <li>Recognise 3-D shapes in different orientations and describe them.</li> </ul>	• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Place value in the context of measures Mental calculation in a variety of contexts, including money,
	<ul> <li>Understand 10 more10 less</li> <li>Check calculations</li> <li>Place Value:         <ul> <li>Read and write numbers to at least 1000</li> <li>Recognise place value of each digit in 3 digit number</li> </ul> </li> </ul>	<ul> <li>4x)</li> <li>Count from 0 in multiples of 4.</li> <li>Recall and use multiplication and division facts for the 3 and 4</li> </ul>	<ul> <li>Find 1, 10 or 100 more or less than a given number.</li> <li>Count from 0 in multiples of 50 and 100.</li> </ul>	<ul> <li>Recognise 3-D shapes in different orientations and describe them.</li> <li>Recognise that angles area</li> </ul>	Recall and use     multiplication and division     facts for the 3, 4 and 8	Place value in the context of measures Mental calculation in a variety of
	<ul> <li>Understand 10 more10 less</li> <li>Check calculations</li> <li>Place Value:         <ul> <li>Read and write numbers to at least 1000</li> <li>Recognise place value of each digit in 3 digit number</li> <li>Compare and order</li> </ul> </li> </ul>	<ul> <li>4x)</li> <li>Count from 0 in multiples of 4.</li> <li>Recall and use multiplication and division facts for the 3 and 4 times tables.</li> </ul>	<ul> <li>Find 1, 10 or 100 more or less than a given number.</li> <li>Count from 0 in multiples of 50 and 100.</li> <li>Describe and extend</li> </ul>	<ul> <li>Recognise 3-D shapes in different orientations and describe them.</li> <li>Recognise that angles area property of a shape or a</li> </ul>	• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Place value in the context of measures Mental calculation in a variety of contexts, including money, measures and statistics
ŝ	<ul> <li>Understand 10 more10 less</li> <li>Check calculations</li> </ul> Place Value: <ul> <li>Read and write numbers to at least 1000</li> <li>Recognise place value of each digit in 3 digit number</li> <li>Compare and order numbers to 1000</li> </ul>	<ul> <li>4x)</li> <li>Count from 0 in multiples of 4.</li> <li>Recall and use multiplication and division facts for the 3 and 4 times tables.</li> <li>Describe and extend number</li> </ul>	<ul> <li>Find 1, 10 or 100 more or less than a given number.</li> <li>Count from 0 in multiples of 50 and 100.</li> <li>Describe and extend number sequences</li> </ul>	<ul> <li>Recognise 3-D shapes in different orientations and describe them.</li> <li>Recognise that angles area property of a shape or a description of a turn.</li> </ul>	<ul> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>X &amp; ÷ measures</li> </ul>	Place value in the context of measures Mental calculation in a variety of contexts, including money,
	<ul> <li>Understand 10 more10 less</li> <li>Check calculations</li> <li>Place Value:         <ul> <li>Read and write numbers to at least 1000</li> <li>Recognise place value of each digit in 3 digit number</li> <li>Compare and order numbers to 1000</li> <li>Round numbers to at least</li> </ul> </li> </ul>	<ul> <li>4x)</li> <li>Count from 0 in multiples of 4.</li> <li>Recall and use multiplication and division facts for the 3 and 4 times tables.</li> <li>Describe and extend number sequences involving counting on</li> </ul>	<ul> <li>Find 1, 10 or 100 more or less than a given number.</li> <li>Count from 0 in multiples of 50 and 100.</li> <li>Describe and extend number sequences involving counting on or</li> </ul>	<ul> <li>Recognise 3-D shapes in different orientations and describe them.</li> <li>Recognise that angles area property of a shape or a description of a turn.</li> <li>Identify whether angles are</li> </ul>	<ul> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>X &amp; ÷ measures         <ul> <li>Write and calculate</li> </ul> </li> </ul>	Place value in the context of measures Mental calculation in a variety of contexts, including money, measures and statistics
Year 3	<ul> <li>Understand 10 more10 less</li> <li>Check calculations</li> <li>Place Value:         <ul> <li>Read and write numbers to at least 1000</li> <li>Recognise place value of each digit in 3 digit number</li> <li>Compare and order numbers to 1000</li> <li>Round numbers to at least 1000 to the nearest 10 and</li> </ul> </li> </ul>	<ul> <li>4x)</li> <li>Count from 0 in multiples of 4.</li> <li>Recall and use multiplication and division facts for the 3 and 4 times tables.</li> <li>Describe and extend number sequences involving counting on</li> </ul>	<ul> <li>Find 1, 10 or 100 more or less than a given number.</li> <li>Count from 0 in multiples of 50 and 100.</li> <li>Describe and extend number sequences involving counting on or back in different steps.</li> </ul>	<ul> <li>Recognise 3-D shapes in different orientations and describe them.</li> <li>Recognise that angles area property of a shape or a description of a turn.</li> <li>Identify whether angles are greater than or less than a</li> </ul>	<ul> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>X &amp; ÷ measures</li> <li>Write and calculate mathematical statements</li> </ul>	Place value in the context of measures Mental calculation in a variety of contexts, including money, measures and statistics
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-Draw 2D shape and	scaling problems and	Recognise and use	written method of	<ul> <li>Draw 2-D shapes</li> </ul>
describe them	correspondence problems	fractions as numbers: unit	columnar addition.	describe them.
Length including perimeter	in which n objects are	fractions and non-unit	<ul> <li>Subtract numbers with up</li> </ul>	<ul> <li>Identify horizonta</li> </ul>
<ul> <li>-Measure, compare, add</li> </ul>	connected to m objects.	fractions with small	to three digits, using	vertical lines and
and subtract lengths (mm,	Written & mental ÷	denominators.	formal written method of	perpendicular an
cm & m)	<ul> <li>-Write and calculate</li> </ul>	<ul> <li>Understand that finding a</li> </ul>	columnar subtraction.	lines.
-Understand perimeter is a	mathematical statements	fraction of an amount	Solve problems, including	Measure the peri
measure of distance	for division using the	relates to division.	missing number problems,	simple shapes.
around a boundary of a	multiplication tables that	<ul> <li>Recognise, find and write</li> </ul>	using number facts, place	<ul> <li>Recognise that ar</li> </ul>
shape	they know, including for	fractions of a discrete set	value, and more complex	property of a sha
-Measure the perimeter of	two-digit numbers divided	of objects: unit fractions	addition and subtraction.	description of a t
a 2D shape	by one-digit numbers,	and non-unit fractions with	Solve one-step and two-	<ul> <li>Identify right ang</li> </ul>
Statistics	using mental and	small denominators.	step questions such as	recognise that tw
Interpret and present data	progressing to formal	Show practically or	'How many more?' and	angles make a ha
using bar charts and tables	written methods.	pictorially that a fraction is	'How many fewer?' using	three make three
-Solve one and two step	- Solve problems involving money and	one whole number divided	information presented in scaled bar charts and	of a turn and four
problems	measures.	by another (for example, $\frac{3}{4}$	pictograms and tables.	complete turn.
Written addition	<ul> <li>Solve problems, including</li> </ul>	can be interpreted as 3 ÷	pictograms and tables.	Identify whether
<ul> <li>-To add numbers with up</li> </ul>	missing number problems,	4).	Fractions	greater than or le
to three digits using	involving division (and	Fractions and Division	Recognise and show, using	right angle.
column addition	interpreting remainders)	<ul> <li>Understand that finding a</li> </ul>	diagrams, equivalent	Decimals
<ul> <li>-To estimate the answer to the calculation and use the</li> </ul>	and correspondence	fraction of an amount	fractions with small	
the calculation and use the inverse.	problems in which n	relates to division.	denominators.	<ul> <li>Count up and do tenths.</li> </ul>
Written subtraction	objects are connected to m	Recognise, find and write	Add and subtract fractions	<ul> <li>Recognise that te</li> </ul>
-To subtract numbers with	objects.	fractions of a discrete set	with the same	from dividing an
up to three digits using		of objects: unit fractions	denominator within one	into 10 equal par
column subtraction	Time	and non-unit fractions	whole (using diagram) (for	dividing one-digi
- To estimate the	<ul> <li>-Tell and write the time</li> </ul>	with small denominators.	example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ ).	or quantities by 2
answer to the	from an analogue clock,	Understand how division		<ul> <li>Identify the value</li> </ul>
calculation and use	including using Roman	statements can be	<ul> <li>Compare and order unit fractions and fractions with</li> </ul>	digit to one decir
the inverse.	numerals from I to XII, and	<ul><li>represented using arrays.</li><li>Understand division as</li></ul>	the same denominators	<ul> <li>Read and write n</li> </ul>
	12-hour and 24-hour	<ul> <li>Onderstand division as sharing and grouping and</li> </ul>	(including on a number	with one decima
	clocks.	use each appropriately.	line).	<ul> <li>Compare and ord</li> </ul>
	<ul> <li>-Estimate and read time</li> </ul>	use each appropriately.	inic).	numbers with on
	with increasing accuracy to	Volume & capacity	Position & direction	place.
	the nearest minute.	Measure, compare, add	Use mathematical	Continue to reco
	<ul> <li>-Record and compare time</li> </ul>	and subtract volumes and	vocabulary to describe	use symbols for
	in terms of seconds,	capacities.	position, direction and	and pence (p) an
	minutes and hours; use	<ul> <li>Solving measurement</li> </ul>	movement, including	understand that
	vocabulary such as o'clock,	Problems	distinguishing between	decimal point se
	a.m./p.m., morning,	Solve problems involving	rotation as a turn and in	pounds and pend
	afternoon, noon and	and measures.	terms of right angles for	<ul> <li>Recognise that te</li> </ul>
	midnight.		quarter, half and three-	coins are equival
	-Know the number of	Mass	quarter turns (clockwise	and that each co
	seconds in a minute and the number of days in each	• Measure, compare, add	and anti-clockwise), and	£1.
	month, year and leap year.	and subtract masses.	movement in a straight	
	<ul> <li>Solve simple problems</li> </ul>	<ul> <li>Solving measurement</li> </ul>	line. (Year 2 objective)	+ & - money
	involving passage of time.	Problems	Describe positions on a	Solve problems in
	involving passage of time.	8X table	square grid labelled with	money
	3d shape	Count from 0 in multiples	letters and numbers.	<ul> <li>Add and subtract</li> </ul>
	-Make 3-D shapes using	of 8.		of money to give
	modelling materials.	Recall and use	Time	using both £ and
		multiplication and division		practical contexts

## Draw 2-D shapes and

describe them. Identify horizontal and vertical lines and pairs of perpendicular and parallel

- Measure the perimeter of simple shapes.
- Recognise that angles are a property of a 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
- Identify whether angles are greater than or less than a

# Count up and down in

- Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. Identify the value of each digit to one decimal place. Read and write numbers with one decimal place. Compare and order numbers with one decimal Continue to recognise and use symbols for pounds (£) and pence (p) and
- understand that the
- decimal point separates pounds and pence. Recognise that ten 10p
- coins are equivalent to £1 and that each coin is  $\frac{1}{10}$  of

# Solve problems involving

Add and subtract amounts of money to give change, using both £ and p in practical contexts.

## Statistics

- Interpret and present data using bar charts, pictograms and tables.
- Solve one-step and twostep questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and
- pictograms and tables.

		Recognise 3-D shapes in	facts for the 8	Tell and write the time		
		different orientations and	multiplication tables.	from an analogue clock,	3d shape – sorting	
		describe them.	<ul> <li>Use sorting diagrams to</li> </ul>	including using Roman	<ul> <li>Make 3-D shapes using</li> </ul>	
		<ul> <li>Identify horizontal and</li> </ul>	compare and sort	numerals from I to XII, and	modelling materials.	
		vertical lines and pairs of	numbers.	12-hour and 24-hour	<ul> <li>Recognise 3-D shapes in</li> </ul>	
		perpendicular and parallel	<ul> <li>Describe and extend</li> </ul>	clocks.	different orientations and	
		lines.	number sequences	Estimate and read time	describe them.	
			involving counting on or	with increasing accuracy to		
			back in different steps.	the nearest minute.		
				Record and compare time		
				in terms of seconds,		
			Multiplication - statistics,	minutes and hours; use		
			measures & money	vocabulary such as, o'clock,		
			Write and calculate	a.m./p.m., morning,		
			mathematical statements	afternoon, noon and		
			for multiplication using the	midnight.		
			multiplication tables that	Know the number of		
			they know, including for	seconds in a minute and		
			two-digit numbers times one-digit numbers, using	the number of days in each		
			mental and progressing to	month, year and leap year.		
			formal written			
			methods.(Grid Method)			
			<ul> <li>Solve problems involving</li> </ul>			
			money and measures.			
			<ul> <li>Solve problems, including</li> </ul>			
			missing number problems			
			involving multiplication			
	Number and place value	Multiplication & Division	Number & Place Value	Number and Place Value	Number and Place Value	Number
	Recognise the place value of each	Understand place value and	Use place value describe and	Identify the place value of each	Describe and extend number	Solve number and practical
	digit in a four-digit number	multiplication facts to develop	extend number sequences	digit to two decimal places.	sequences involving counting on or	problems that with increasingly
	including decimals	written methods for multiplication.	involving counting on or back in		back in different steps, including	large positive number including
		Develop a written methods of	different steps, including	Multiplication	sequences with multiplication and	decimals
	Round any number to the nearest	division	sequences with multiplication and	Know how to multiply together	division steps.	
	10, 100 or 1000	Mental Division, using place value,	division steps.	three numbers.		Statistics
			Count backwards through zero to			Solve comparison, sum and
		known and derived facts to divide		Recognise and use factor pairs and	Decimals	
	Find 0.1, 1, 10, 100 or 1000 more	known and derived facts to divide mentally.	include negative numbers.	commutativity in mental	Develop their knowledge and	difference problems using
	Find 0.1, 1, 10, 100 or 1000 more or less than a given number.	mentally.	include negative numbers.	commutativity in mental calculations.	Develop their knowledge and understanding of decimals and	difference problems using information presented in bar
	or less than a given number.	mentally. Measures	include negative numbers. Fraction & Decimals	commutativity in mental calculations. Develop use of written	Develop their knowledge and understanding of decimals and relate multiplying and dividing by	difference problems using information presented in bar charts, pictograms, tables and
4	or less than a given number. Addition and Subtraction	mentally. <b>Measures</b> Estimate, measure and compare	include negative numbers. Fraction & Decimals Understand that a fraction is one	commutativity in mental calculations.	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and	difference problems using information presented in bar
ır 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up	mentally. <b>Measures</b> Estimate, measure and compare lengths	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another	commutativity in mental calculations. Develop use of written multiplication for problem solving	Develop their knowledge and understanding of decimals and relate multiplying and dividing by	difference problems using information presented in bar charts, pictograms, tables and other graphs
ear 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one	mentally. <b>Measures</b> Estimate, measure and compare lengths Calculate the perimeter and area of	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, = can be interpreted	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b>	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure.	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction
Year 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal	mentally. <b>Measures</b> Estimate, measure and compare lengths	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, – can be interpreted as $3 \div 4$ ).	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. Measures	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with u
Year 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar	mentally. <b>Measures</b> Estimate, measure and compare lengths Calculate the perimeter and area of rectangles	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, – can be interpreted as $3 \div 4$ ). Add and subtract fractions with the	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D shapes presented in different	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. <b>Measures</b> Estimate, compare and calculate	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with u to 4 digits and decimals with one
Year 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal	mentally. Measures Estimate, measure and compare lengths Calculate the perimeter and area of rectangles Position and Direction	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, – can be interpreted as 3 ÷ 4). Add and subtract fractions with the same denominator.	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D shapes presented in different orientations.	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. <b>Measures</b> Estimate, compare and calculate different measures.	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with u to 4 digits and decimals with one decimal place using the efficient
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Year 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction Calculations	mentally. Measures Estimate, measure and compare lengths Calculate the perimeter and area of rectangles Position and Direction	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, = can be interpreted as 3 ÷ 4). Add and subtract fractions with the same denominator. Recognise, find and write fractions of a discrete set of objects	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D shapes presented in different orientations.	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. Measures Estimate, compare and calculate different measures. Apply their knowledge of the number system when measuring	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with or to 4 digits and decimals with one decimal place using the efficient written methods of columnar addition and subtraction where
Year 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction Calculations Understand how to check	mentally. <b>Measures</b> Estimate, measure and compare lengths Calculate the perimeter and area of rectangles <b>Position and Direction</b> Describe positions on a 2-D grid as coordinates in the first quadrant.	include negative numbers. <b>Fraction &amp; Decimals</b> Understand that a fraction is one whole number divided by another (for example, – can be interpreted as 3 ÷ 4). Add and subtract fractions with the same denominator. Recognise, find and write fractions of a discrete set of objects including those with a range of	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D shapes presented in different orientations. Plot specified points and draw sides to complete a given polygon	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. Measures Estimate, compare and calculate different measures. Apply their knowledge of the number system when measuring lengths (mm, cm, m), capacities /	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with or to 4 digits and decimals with one decimal place using the efficient written methods of columnar
Year 4	<ul> <li>or less than a given number.</li> <li>Addition and Subtraction         Add and subtract numbers with up             to 4 digits and decimals with one             decimal place using the formal             written methods of columnar             addition and subtraction     </li> <li>Calculations         Understand how to check             calculations using inverse     </li> </ul>	<ul> <li>mentally.</li> <li>Measures Estimate, measure and compare lengths Calculate the perimeter and area of rectangles </li> <li>Position and Direction Describe positions on a 2-D grid as coordinates in the first quadrant. Statistics</li></ul>	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, = can be interpreted as 3 ÷ 4). Add and subtract fractions with the same denominator. Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators.	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D shapes presented in different orientations. Plot specified points and draw sides to complete a given polygon Addition & Subtraction	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. <b>Measures</b> Estimate, compare and calculate different measures. Apply their knowledge of the number system when measuring lengths (mm, cm, m), capacities / volumes (ml, l) and masses (g, kg).	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with one to 4 digits and decimals with one decimal place using the efficient written methods of columnar addition and subtraction where appropriate.
Year 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction Calculations Understand how to check	<ul> <li>mentally.</li> <li>Measures Estimate, measure and compare lengths Calculate the perimeter and area of rectangles </li> <li>Position and Direction Describe positions on a 2-D grid as coordinates in the first quadrant. Statistics Interpret and present discrete data</li></ul>	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, – can be interpreted as 3 ÷ 4). Add and subtract fractions with the same denominator. Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators. Recognise and write decimal	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D shapes presented in different orientations. Plot specified points and draw sides to complete a given polygon <b>Addition &amp; Subtraction</b> Add and subtract numbers with up	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. <b>Measures</b> Estimate, compare and calculate different measures. Apply their knowledge of the number system when measuring lengths (mm, cm, m), capacities / volumes (ml, l) and masses (g, kg). Solve problems involving	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with one decimal place using the efficient written methods of columnar addition and subtraction where appropriate. Multiplication and division
Year 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction Calculations Understand how to check calculations using inverse operations	<ul> <li>mentally.</li> <li>Measures Estimate, measure and compare lengths Calculate the perimeter and area of rectangles </li> <li>Position and Direction Describe positions on a 2-D grid as coordinates in the first quadrant. Statistics Interpret and present discrete data using appropriate graphical</li></ul>	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, – can be interpreted as 3 ÷ 4). Add and subtract fractions with the same denominator. Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators. Recognise and write decimal equivalents to ¼ ; ½ ; ¾ .	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D shapes presented in different orientations. Plot specified points and draw sides to complete a given polygon <b>Addition &amp; Subtraction</b> Add and subtract numbers with up to 4 digits and decimals with one	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. <b>Measures</b> Estimate, compare and calculate different measures. Apply their knowledge of the number system when measuring lengths (mm, cm, m), capacities / volumes (ml, l) and masses (g, kg). Solve problems involving converting from hours to minutes;	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with or to 4 digits and decimals with one decimal place using the efficient written methods of columnar addition and subtraction where appropriate. Multiplication and division Solve problems involving
Year 4	<ul> <li>or less than a given number.</li> <li>Addition and Subtraction         Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction     </li> <li>Calculations         Understand how to check calculations using inverse operations     </li> <li>Geometry</li> </ul>	<ul> <li>mentally.</li> <li>Measures Estimate, measure and compare lengths Calculate the perimeter and area of rectangles </li> <li>Position and Direction Describe positions on a 2-D grid as coordinates in the first quadrant. Statistics Interpret and present discrete data using appropriate graphical methods, including in bar charts,</li></ul>	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, = can be interpreted as 3 ÷ 4). Add and subtract fractions with the same denominator. Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators. Recognise and write decimal equivalents to ¼ ; ½ ; ¾ . Solve simple measure and money	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D shapes presented in different orientations. Plot specified points and draw sides to complete a given polygon <b>Addition &amp; Subtraction</b> Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. <b>Measures</b> Estimate, compare and calculate different measures. Apply their knowledge of the number system when measuring lengths (mm, cm, m), capacities / volumes (ml, l) and masses (g, kg). Solve problems involving converting from hours to minutes; minutes to seconds; years to	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with one to 4 digits and decimals with one decimal place using the efficient written methods of columnar addition and subtraction where appropriate. Multiplication and division Solve problems involving multiplying and adding, including
Year 4	or less than a given number. Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction Calculations Understand how to check calculations using inverse operations	<ul> <li>mentally.</li> <li>Measures Estimate, measure and compare lengths Calculate the perimeter and area of rectangles </li> <li>Position and Direction Describe positions on a 2-D grid as coordinates in the first quadrant. Statistics Interpret and present discrete data using appropriate graphical</li></ul>	include negative numbers. Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, – can be interpreted as 3 ÷ 4). Add and subtract fractions with the same denominator. Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators. Recognise and write decimal equivalents to ¼ ; ½ ; ¾ .	commutativity in mental calculations. Develop use of written multiplication for problem solving <b>Geometry</b> Identify lines of symmetry in 2-D shapes presented in different orientations. Plot specified points and draw sides to complete a given polygon <b>Addition &amp; Subtraction</b> Add and subtract numbers with up to 4 digits and decimals with one	Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure. <b>Measures</b> Estimate, compare and calculate different measures. Apply their knowledge of the number system when measuring lengths (mm, cm, m), capacities / volumes (ml, l) and masses (g, kg). Solve problems involving converting from hours to minutes;	difference problems using information presented in bar charts, pictograms, tables and other graphs Addition and Subtraction Add and subtract numbers with use to 4 digits and decimals with one decimal place using the efficient written methods of columnar addition and subtraction where appropriate. Multiplication and division

	Time	Multiplication	Multiplication	Statistics	Geometry	digit, division (including
	<b>R</b> ead time to the nearest minute is	Recall multiplication facts up to	Recall multiplication facts up to	Interpret discrete and continuous	Complete a simple symmetric	remainders)
	developed to include converting	and including 12x 12	and including 12x 12	data using appropriate graphical	figure with respect to a specific line	remaindersy
	between different time systems			methods, including bar charts and	of symmetry.	Geometry
	-					-
	(analogue and digital) and different			time graphs.	Plot specified points and draw	Use a variety of sorting diagrams
	units of time.			Neulain Breating	sides to complete a given polygon	compare and classify numbers ar
				Multiplication		geometric shapes, including
	Roman Numerals			Recall multiplication facts up to	Position & Direction	quadrilaterals and triangles, base
	Recognise Roman Numerals			and including 12x 12	Describe movements between	on their properties and sizes.
					positions on a 2-D grid as	
	Multiplication				translations of a given unit to the	Multiplication
	Recall multiplication facts up to				left/right and up/down.	Recall multiplication facts up to
	and including 12x 12					and including 12x 12
					Multiplication	
					Recall multiplication facts up to	
					and including 12x 12	
	Place value	Multiplication & Division	Place value	Multiplication & Division	Place value	Place Value
	-Read, write, order and compare		-Interpret negative numbers and	-Identify multiples and factors	-Read, write, order and compare	
	numbers to at least 1 000 000 and	-Identify multiples and factors,	count forwards and backwards	-Divide numbers mentally	numbers to at least 1 000 000	-Read, write, order and compare
	determine the value of each digit.	including finding all factor pair	with positive and negative whole	-Divide numbers up to 4 digits by a	- Identify the value of each digit to	numbers to at least 1 000 000
	-Count forwards or backwards in	-Know and use the vocabulary of	numbers	one-digit number using short	three decimal places.	-Count forwards or backwards in
	steps of powers of 10 for any given	prime numbers.	-Calculate difference in	division and interpret remainders	-Read, write, order and compare	steps of powers of 10 for any give
	number up to 1 000 000.	-Recognise and use square	temperature	-Solve problems involving addition,	numbers with up to three decimal	number up to 1 000 000.
	-Describe and extend number	numbers	-Describe and extend number	subtraction, multiplication and	places.	-Interpret negative numbers in
	sequences	-Use partitioning to double or halve	sequences including multiplication	division	-Count forwards or backwards in	context, count forwards and
	-Round any number up to 1 000	any number, including decimals to	and division steps including		steps of powers of 10 for any given	backwards with positive and
	000 to the nearest 10, 100, 1000,	two decimal places.	decimals	Geometry	number up to 1 000 000.	negative whole numbers, includ
	10 000 and 100 000.	-Multiply and divide numbers	-Order temperatures	-Distinguish between regular and	-Count forwards and backwards in	through zero.
	-Find 1, 10, 100, 1000 and other	mentally	-Read Roman numerals to 1000	irregular polygons	decimal steps.	-Round any number up to 1 000
	powers of 10 more or less than a		and recognise years written in	-Use the properties of rectangles to	-Round any number up to 1 000	000 to the nearest 10, 100, 1000
		-Solve problems involving				
	given number than a given	multiplication and division	Roman numerals.	deduce related facts and missing	000 to the nearest 10, 100, 1000,	10 000 and 100 000.
	number.	-Multiply numbers up to 4 digits by		lengths and angles.	10 000 and 100 000.	Addition, Subtraction,
	-Recognise and use thousandths	a one- or two-digit number using	Addition and subtraction	-Identify 3-D shapes, including	-Round decimals with two decimal	Multiplication & Division
n	and relate them to tenths,	including long multiplication for		cubes and other cuboids, from 2-D	places to the nearest whole	-Add and subtract whole numbe
6	hundredths and decimal	two-digit numbers.	-Add and subtract numbers	representations.	number and to one decimal place.	with more than 4 digits and
	equivalents.		mentally with decimals to two	-Compare and classify geometric	-Find 0.01, 0.1, 1, 10, 100, 1000	decimals with two decimal place
-	-Read, write, order and compare		decimal places.	shapes, including quadrilaterals	and other powers of 10 more or	-Multiply numbers up to 4 digits
	numbers with up to three decimal	-Divide numbers up to 4 digits by a	-Add and subtract whole numbers	and triangles, based on their	less than a given number than a	a one- or two-digit number
	places.	one-digit number using short	with more than 4 digits and	properties and sizes.	given number.	-Divide numbers up to 4 digits b
	-Find 0.01, 0.1, 1, 10, 100, 1000	division and interpret remainders	decimals with two decimal places,			one-digit number
	and other powers of 10 more or	-Solve problems involving division.	using formal written methods	Fractions, Decimals & Percentages	Fractions	-Solve problems involving additi
	less than a given number than a		-Use estimation and inverse to	-Recognise mixed number and		subtraction, multiplication and
	given number.	Fractions	check answers to calculations	improper fractions and convert	-Recognise mixed numbers and	division
	-Count forwards and backwards in	-Count on and back in mixed	-Solve addition and subtraction	from one form to the other.	improper fractions and convert	
	decimal steps.	number steps	multi-step problems	-Add and subtract fractions with	from one form to another.	Fractions/decimals/percentage
	-Round decimals with two decimal	-Read and write decimal numbers		the same denominator and	-Compare and order fractions	Round decimals with two decim
	places to the nearest whole	as fractions.		denominators that are multiples of	-Identify, name and write	places to the nearest whole
	number and to one decimal place.	-Identify, name and write	<b>Multiplication &amp; Division</b>	the same number	equivalent fractions including	number and to one decimal place
	-Multiply and divide whole	equivalent fractions	-Identify multiples and factors	Write mathematical statements > 1	tenths and hundredths.	-Solve problems involving numb
	numbers and those involving	-Compare and order fractions	-Multiply and divide numbers	as a mixed number,	-Add and subtract fractions	up to three decimal places.
	decimals by 10, 100 and 1000.	-Solve problems involving fractions.	mentally		-Multiply proper fractions and	-Recognise the per cent symbol
				Moasuros		and understand that per cent
		Statistics	-Multiply numbers up to 4 digits by	Measures	mixed numbers by whole numbers	-
	Addition and a lateral	Statistics	a one- or two-digit number using		84	relates to 'number of parts per
	Addition and subtraction		long multiplication		Measures	hundred', and write percentage

-Add and subtract whole numbers	-Read, write and convert time	-Solve problems involving	-Calculate and compare the area of	-Read, write and conver
with more than 4 digits and	between analogue and digital 12	multiplication, including scaling	rectangles and estimate the area of	between analogue and
decimals with two decimal places,	and 24-hour clocks.	Measures	irregular shapes.	and 24-hour clocks.
including using formal written	-Complete, read and interpret	-Use all four operations to solve	-Estimate (and calculate) volume	-Complete, read and int
methods	information in tables, including	problems involving measure (for		information in tables, ir
-Use estimation and inverse to	timetables.	example, length, mass, volume,	Statistics	timetables.
check answers to calculations	-Solve problems involving	money) using decimal notation.		-Solve problems involvi
Solve addition and subtraction	converting between units of time.	Use, read and write standard units	-Use, read and write standard units	converting between un
multi-step problems		of length and mass to a suitable	of length and mass	-Solve comparison, sum
	Measures	degree of accuracy.	-Estimate and calculate capacity.	difference problems usi
Geometry	-Calculate and compare the area of	-Estimate and calculate capacity.	-Calculate and interpret the mode,	information presented i
-Estimate and compare acute,	rectangles and estimate the area of	-Multiply and divide numbers and	median and range.	of graph including a line
obtuse and reflex angles.	irregular shapes.	those involving decimals by 10, 100		
-Draw given angles and measure		and 1000.		Geometry
them in degrees		-Convert between different units of		
		metric measure		-Distinguish between re
Measure				irregular polygons base
-Distinguish between regular		Geometry		reasoning about equal s
polygons based on reasoning about		-Distinguish between regular and		angles.
equal sides and angles.		irregular polygons		-Use the properties of r
-Measure and calculate the		-Describe positions on the first		find missing lengths and
perimeter of rectilinear shapes in		quadrant of a coordinate grid.		-Identify 3-D shapes, inc
centimetres and metres.		-Plot specified points and complete		cubes and other cuboid
		shapes.		representations.
Statistics		-Identify, describe and represent		-Compare and classify g
		the position of a shape following a		shapes, including quadr
-Solve comparison, sum and		reflection or translation		and triangles, based on
difference problems using		-Estimate and compare acute,		properties and sizes.
information presented in a line		obtuse and reflex angles.		-Describe positions on t
graph.		-Draw given angles, and measure		quadrant of a coordinat
		them in degrees		-Plot specified points ar
		-Identify angles at a point and one		shapes.
		whole turn		-Identify, describe and r
		-Identify angles at a point on a		the position of a shape
		straight line and a turn		reflection or translation
				Addition and subtraction
				-Add and subtract whol
				with more than 4 digits
				decimals with two decir
				including using formal v
				methods
				-Add and subtract numl
				mentally
				-Solve addition and sub
				multi-step problems in
				deciding which operation
				methods to use and wh
				Multiplication & division
				-Divide numbers up to 4

vert time nd digital 12

interpret , including

lving units of time. um and using ed in all types ine graph.

regular and sed on al sides and

of rectangles and angles. including bids, from 2-D

y geometric Idrilaterals on their

n the first nate grid. and complete

d represent pe following a on

tion

ole numbers its and cimal places, il written

mbers

ubtraction in contexts, tions and why.

sion

division

-Divide numbers up to 4 digits by a one-digit number using of short

a fraction with denominator 100, and as a decimal. -Solve problems which require

knowing percentage and decimal equivalents

# Measures

-Solve problems involving converting between units of time. -Use all four operations to solve problems involving measure -Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. -Estimate volume (for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)) and capacity (for example, using water).

# Geometry

-Calculate and compare the area of rectangles and estimate the area of irregular shapes.

	<ul> <li>ce Value</li> <li>Read, write, order and compare numbers up to 10 000 000</li> <li>Round any whole number</li> <li>Use negative numbers in context, and calculate intervals across zero.</li> <li>Count forwards or backwards in steps of integers, decimals or powers of 10 for any number.</li> <li>Order and compare numbers</li> </ul>	<ul> <li>Fractions, percentages, ratio and proportion</li> <li>Identify common factors, common multiples and prime numbers.</li> <li>Compare and order fractions, including fractions &gt;1</li> <li>Add and subtract fractions with different denominators and mixed numbers</li> <li>Associate a fraction with division and calculate decimal fraction equivalents (e.g.</li> </ul>	<ul> <li>Place value</li> <li>Count forwards or backwards in steps of integers, decimals or powers of 10 for any number.</li> <li>Describe and extend number sequences</li> <li>Use simple formulae.</li> <li>Generate and describe linear number sequences.</li> <li>Geometry</li> <li>Describe positions on the full coordinate grid (all four</li> </ul>	<ul> <li>Addition &amp; Subtraction         <ul> <li>Add and subtract whole numbers and decimals using formal written methods</li> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> <li>Use their knowledge of the order of operations to</li> </ul> </li> </ul>	<ul> <li>-Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</li> <li>-Recognise and use square numbers and cube numbers</li> <li>-Solve problems involving multiplication and division</li> <li>Place Value         <ul> <li>Count forwards or backwards in steps of integers, decimals or powers of 10 for any number.</li> <li>Order and compare numbers including integers, decimals and negative numbers.</li> <li>Identify, represent and estimate numbers using the number line.</li> </ul> </li> </ul>	<ul> <li>Place Value &amp; Decimals</li> <li>Count forwards or backwards in steps of integers, decimals or powers of 10 for any number.</li> <li>Order and compare numbers including integers, decimals and negative numbers.</li> <li>Calculate differences in temperature</li> <li>Find 0.001, 0.01, 0.1, 1, 10</li> </ul>
Year 6	<ul> <li>including integers, decimals and negative numbers.</li> <li>Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number.</li> <li>Recall and use addition and subtraction facts for 1 (with decimal numbers to two decimal places).</li> <li>Round decimals with three places to the nearest whole number or one or two decimal places.</li> <li>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.</li> </ul>	<ul> <li>0.375) for a simple fraction (e.g. <sup>3</sup>/<sub>8</sub>).</li> <li>Recall and use equivalences between simple fractions, decimals and percentages</li> <li>Solve problems involving fractions.</li> <li>Find simple percentages of amounts.</li> <li>Solve problems involving the calculation of percentages</li> <li>Solve problems involving similar shapes where the scale factor is known or can be found.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>	<ul> <li>quadrants).</li> <li>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> <li>Measures <ul> <li>Use negative numbers in context</li> <li>Order and compare numbers including integers, decimals and negative numbers.</li> <li>Calculate and interpret the mean as an average.</li> </ul> </li> <li>Fractions <ul> <li>Identify common factors, common multiples and prime numbers.</li> <li>Use common factors to</li> </ul> </li> </ul>	<ul> <li>carry out calculations involving the four operations.</li> <li>Measurement, Ratio and proportion <ul> <li>Solve problems involving similar shapes where the scale factor is known or can be found.</li> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time</li> <li>Solve problems involving the calculation and conversion of units of measure (including money and time)</li> </ul> </li> </ul>	<ul> <li>Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number.</li> <li>Round decimals</li> <li>Simplify fractions</li> <li>Compare and order fractions,</li> <li>Add and subtract fractions</li> <li>Calculate decimal fraction equivalents</li> <li>Multiplication &amp; Written Calculation         <ul> <li>Perform mental calculations, including with mixed operations and large numbers and decimals.</li> <li>Add and subtract whole numbers and decimals using formal written</li> </ul> </li> </ul>	<ul> <li>and powers of 10 more or less than a given number.</li> <li>Round decimals with three places</li> <li>Describe and extend number sequences</li> </ul> Measures <ul> <li>Solve problems involving the calculation and conversion of units of measure</li> <li>Use, read, write and convert between standard units</li> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units</li> </ul>
•	dition & Subtraction Perform mental calculations, including with mixed operations and large numbers and decimals. Choose an appropriate strategy to solve a calculation Solve addition and subtraction multi-step problems Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns.	<ul> <li>Geometry <ul> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul> </li> <li>Statistics <ul> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> <li>Solve comparison, sum and difference problems using</li> </ul> </li> </ul>	<ul> <li>simplify fractions; use</li> <li>common multiples to express</li> <li>fractions in the same</li> <li>denomination.</li> <li>Add and subtract fractions</li> <li>with different denominators</li> <li>and mixed numbers, using</li> <li>the concept of equivalent</li> <li>fractions.</li> <li>Multiply simple pairs of</li> <li>proper fractions, writing the</li> <li>answer in its simplest form</li> <li>Divide proper fractions by</li> <li>whole numbers</li> </ul>	<ul> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving the calculation of percentages</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> <li>Convert between miles and</li> </ul>	<ul> <li>methods</li> <li>Solve problems involving addition, subtraction, multiplication and division, using formal written methods.</li> <li>Use estimation and inverse to check answers to calculations</li> </ul> Fractions, ratio and proportion <ul> <li>Multiply simple pairs of proper fractions</li> <li>Divide proper fractions by</li> </ul>	<ul> <li>Addition, Subtraction,</li> <li>Multiplication &amp; Division         <ul> <li>Perform mental calculations, including with mixed operations and large numbers and decimals.</li> <li>Add and subtract whole numbers and decimals using formal written methods</li> <li>Solve problems involving addition, subtraction, multiplication and division using formal written</li> </ul> </li> </ul>

- Use estimation and inverse to check answers to calculations
- Add and subtract whole numbers and decimals using column addition and subtraction
- Solve problems which require answers to be rounded to specified degrees of accuracy.

## **Multiplication & Division**

- Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication.
- Multiply one-digit numbers with up to two decimal places by whole numbers.
- Divide numbers up to 4 digits by a two-digit whole number using long division
- Divide numbers up to 4 digits by a two-digit number using short division, interpreting remainders
- Use written division methods in cases where the answer has up to two decimal places.
- Perform mental calculations, including with mixed operations and large numbers and decimals.
- Solve problems involving addition, subtraction, multiplication and division.
- Express missing number problems algebraically.

#### Geometry

- 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.
- Continue to complete and interpret information in a variety of sorting diagrams (including those used to sort

information presented in all types of graph.

### Measures

- Solve problems involving the calculation and conversion of units of measure (including money and time)
- Use, read, write and convert between standard units, converting measurements of length and mass
- Convert between miles and kilometres.
- Recognise that shapes with the same areas can have different perimeters and vice versa.
- Calculate the area of parallelograms and triangles.
- Recognise when it is possible to use the formulae for area and volume of shapes.
- Calculate, estimate and compare volume of cubes and cuboids using standard units

 Calculate decimal fraction equivalents for a simple fraction

## **Multiplication & Division**

- Divide numbers up to 4 digits by a two-digit whole number using long division
- Divide numbers up to 4 digits by a two-digit number using short division
- Use written division methods where the answer has up to two decimal places.
- Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication.
- Multiply one-digit numbers with up to two decimal places by whole numbers.

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kilometres.

# Geometry

- 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.
Continue to complete and

- interpret information in a variety of sorting diagrams
- 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.
- Recognise that shapes with the same areas can have different perimeters and vice versa.
- Recognise when it is possible to use the formulae for area and volume of shapes.
- Calculate the area of parallelograms and triangles.
- Calculate, estimate and compare volume of cubes and cuboids

## Statistics

- Interpret and construct pie charts and line graphs and use these to solve problems.
- Solve comparison, sum and difference problems using information presented in all types of graph.

- whole numbe Solve problem the calculation
- percentages Solve problem similar shapes
- scale factor is can be found.

# Geometry

- Draw 2-D shap given dimension angles.
- Describe posit
   full coordinate
   four quadrant
- Draw and tran shapes on the plane, and refl the axes.

# Algebra & Sequence

- Describe and number seque including thos multiplication steps, inconsis alternating ste where the ste decimal.
- Use simple for
- Generate and
   linear number

# Measures

- Solve problem the calculation conversion of measure (inclu and time), usi notation up to
- decimal places
   Use, read, writ convert between
- units
  Calculate and mean as an av
- Statistics

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Solve compar difference pro information p all types of gra

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