Curriculum Intent for Mathematics Curriculum A & B			
Progression of Skills Key Stage 1			
	EYFS		
Autumn	Spring	Summer	
Number	Number	Number	
To recognise numbers 1-3	To recognise numbers 0-8	To recognise numbers to 20	
To begin to subitise to 3	To subitise to 5	To revise number bonds to 5	
To find one more of numbers to 3	To find one more of numbers to 8	To explore how to make numbers above	
To find one less of numbers to 3	To find one less of numbers to 8	ten using tens and ones	
To explore the composition of 2 and 3 To recognise	To explore the composition of 6, 7 and 8	To match the number to quantity	
numbers 1-5	To match the number to quantity	Numerical Patterns	
Numerical Patterns	Numerical Patterns	To count to 25	
To say which group has more	To count to 15	To add numbers	
To say which group has less	To count objects to 10	To subtract numbers	
To compare quantities to 3	To compare quantities to 8	To find the missing number	
To count to 5	To begin to understand the different between odd	To order numbers to 20	
Space, Shape & Measure	and even numbers up to 8	To order numbers e.g. 13, 15, 19	
To match objects	To combine two groups of objects	To find the missing number in an addition	
To sort objects	Space, Shape & Measure	and subtraction sentence problems	
To compare capacity, length, height, size.	To order objects by height and length	Space, Shape & Measure	
To finish a repeating pattern of 2 objects or colours	To order the days of the week	To measure capacity	
Half Term	To measure height using cubes	To measure time	
Number	Half Term	To recognise the time to o'clock	
To begin to subitise to 5	Number	Half Term	
To find one more of numbers to 5	To recognise numbers 0-10	Number	
To find one less of numbers to 5	To explore the composition of 9 and 10	To solve simple number problems	
To explore the composition of 4 and 5	To practise number bonds to 10	To recap the composition of each number	
To recognise and name circle, triangle, square,	To know addition facts to make 5	to 10	
rectangle.	To find one more of numbers to 10	To know addition and subtraction facts to	
To explore and name 3D shapes.	To find one less of numbers to 10	10	
Numerical Patterns	To estimate a number of objects	To know doubling facts	
To compare quantities to 5	Numerical Patterns	Numerical Patterns	
To compare equal and unequal groups	To count to 20		

To count to 10	To compare quantities to 10	To count to 30 and beginning to count
Space, Shape & Measure	To explore odd and even numbers	higher (100).
To recognise and name circle, triangle, square,	To order numbers to 10 To count back from 10	To know that 1, 3, 5, 7 and 9 are odd To know that 2, 4, 6, 8, 10 are even
rectangle. To explore and name 3D shapes	To combine two groups of objects To take away	To double numbers up to 10
TO explore and name 5D shapes	objects and count how many are left	To find half of numbers up to 10
	To find the missing number	To share quantities equally
	Space, Shape & Measure	To combine groups of 2s, 5s and 10s
	To recognise coins 1p, 2p, 5p 10p, 20p	Space, Shape & Measure
	To finish a more complex repeating pattern	To add money
		To make patterns using shapes
		To name and describe 2D and 3D shapes

YEAR 1			
Autumn	Spring	Summer	
 Place Value -Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number -Count and label sets of items and record the number in numerals -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 -Read and write numbers from 1 to 20 in numerals and words Addition and Subtraction -Given a number, identify one more and one less and begin to read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs Measures -Describe and solve practical problems for: Lengths and heights (e.g. long/short, longer/shorter, tall/short, double/half) mass / weight Solve practical problems involving mass or weight using the language of heavy/light; heavier than/lighter than. Pictorial recording Measure and begin to record mass and weight using non-standard units to compare the mass of two or three objects. Time (quicker, slower, earlier, later) 	OptingAddition and SubtractionDerive the partitions for 8,9 and 10Use partitions of 5,6,7,8,9 and 10 to deriveassociated subtraction facts.Use partitioning and part-whole diagrams to read,write and interpret mathematical statements to 20 ~focus on teen numbers and the language of 'ten andsome more' (teen numbers)Use tens frames to develop understanding and therecall of the set of calculations showing 'ten plussome ones'Solve one-step problems that involve addition, usingconcrete objects and pictorial representations andthe language of 'ten and some more' (teen numbers)Measures (Time & Mass)Tell the time to the hour. Begin to draw the hands ona clock-face.Know how many minutes there are in an hourSolve practical problems involving mass or weightusing the language of heavy/light; heavier than/ lighterthan. Pictorial recordingFractionsNumber, place valueCount to at least 100 forwards, beginning with 0 or 1,or from any given number-Count in 10s to 100, modelling on a number-lineRead numbers from 0 to 100. Write numbers from 1to 20Order numbers up to 100 starting from any numbercrossing the tens boundaries.Count back from any given number up to 50.Given a number, identify one more and one less	Multiplication & DivisionCount reliably in 2s and 10s.Introduce counting in 5s.Link counting in 5s to grouping objects andto the pattern of numbers on a number-line.Solve problems involving groups of 5objects using pictorial recording.Rehearse together the language of 'Howmany groups of 5 are there?' ~ 'There are 3groups of 5'Solve one-step problems involvingmultiplication, focussing on groups of 5,using concrete objects, pictorialrepresentations, and arrays with thesupport of the teacher.Solve one-step problems involvingmultiplication and division, focussing ongroups of 2 and 10, using concrete objects,pictorial representations, and arrays withthe support of the teacher.Recognise that 5 is half of 10 and showusing concrete resources and diagrams.Recognise , find and name a half as one oftwo equal parts of a quantity (division by 2)Geometry-Recognise and name 3-D shapes includingcuboids, pyramids, and spheres-Describe position, directions andmovements, including half, quarter andthree-quarter turns.Number, place value (Addition &Subtraction)	

language such as: before and after, next, first,	Add 10 to a number using concrete resources and a	Count to and across 100, forwards and
today, yesterday, tomorrow, morning, afternoon	number-line	backwards, beginning with 0 or 1, or from
and evening	Addition & Subtraction	any given number
Recognise and use language relating to dates,	Revise and use partitions of all numbers up to 10,	Count, read and write numbers to 100 in
including days of the week	recalling and deriving associated subtraction facts to	numerals.
-Recognise and know the value of different	solve problems.	Given a number, identify one more and
denominations of coins e.g.1p and 10p coins. Include	Use partitioning and part-whole diagrams to read,	one less
£10 notes for counting in 10s.	write and interpret mathematical statements to 10	Identify and represent numbers using
-Sort coins into different types. Note what is the same	when solving problems.	objects and pictorial representations,
and what is different.	Develop children's fluency with using known or	including the number-line, and use the
-Put pennies on a number-line and step-count	derived number facts, moving on from counting in	language of equal to, more than, less than
- Compare and describe lengths and heights using	ones (on fingers).	(fewer), most, least.
non-standard units.	Solve one-step problems that involve addition and	Read and write numbers from 1 to 20 in
-Solve problems in a practical context	subtraction to 20, using concrete objects and pictorial	numerals and words.
	representations.	Read, write and interpret mathematical
Fractions	Deepen understanding of the relationship between	statements involving addition (+),
-Recognise, find and name a half as one of two	the concrete and ordinal for numbers up to 20. E.g.	subtraction (-) and equals (=) signs.
equal parts of an object, shape	'11 is ten and one' (using concrete objects) and also	Represent and use number bonds and
	'11 is one more than 10' (position on a number-line)	related subtraction facts within 20.
Geometry	Addition & Subtraction with measures	Add and subtract one-digit and two-digit
-Describe position using mathematical vocabulary	(money)	numbers to 20, including zero.
and simple grid references	 Recognise and know the value of different 	Solve one-step problems that involve
Number Place Value	denominations of coins and notes.	addition and subtraction using concrete
	- Count to at least 100 forwards, beginning with 0 or	objects and pictorial representations, and missing number problems such as $7 = 4$
-Count in 2s to 20, modelling on a number-line	1, or from any given number. Make links with	missing number problems such as $7 = \Delta - 9$
- Count in 10s to 100, modelling on a number-line -Read numbers from 20 to 50	counting in pennies Count in 2ps to 20p, modelling	Fractions (Multiplication & Division)
	on a number-line	Count in multiples of 2s, 5s and 10s.
-Order numbers up to 50 starting from any number between 1 and 10.	-Count in 10ps to 100p, modelling on a number-line.	Solve one step problems involving
	Develop understanding that 100p = £1	multiplication and division, by calculating
-Count back from any given number between 11-20	Read numbers from 0 to 100. Write numbers from 1	the answer using concrete objects, pictorial
to zero	to 20	representations, and arrays with the
-Given a number, identify one more and one less to 20	-Order amounts of any money up to 100p using 1p	support of the teacher.
Addition & Subtraction	and 10p coins. Link to a number-line marked with	Recognise find and name a half as one of
	pence.	two equal parts of an object, shape, or
-Partition 5 into two parts in different ways using	-Count back in pennies from any amount up to 50p	quantity.
concrete objects (e.g.2-coloured counters or 2-	-Given a total, identify one penny more and one	Recognise find and name a quarter as one
coloured multi-link bars). Record pictorially.	penny less. Use coins to model the amount and	of four equal parts of an object, shape, or
	record on a number-line to explore patterns	quantity

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-Use a context to problem-solve with number bonds	-Add and subtract 10p to and from an amount of	Measures (Volume, Capacity, Time)
to 5	money using 10p and 1p coins and a number-line	-Compare, describe, and solve practical
-Partition 5,6 and 7 into two parts in different ways	Addition & Subtraction with measures (Mass)	problems for capacity / volume (full/empty,
using concrete objects (e.g.2-coloured counters or 2-	Solve practical problems involving mass or weight	more than/less than, half , quarter)
coloured multi-link bars). Record pictorially. Note	using comparative language such as heavy/light;	Measure and begin to record capacity and
double 3 is 6.	heavier than/ lighter than. Pictorial recording.	volume.
- Use a context to problem-solve with number bonds	 Measure and begin to record mass and weight 	Tell the time to the hour and half past the
to 5,6 and 7	using non-standard units to compare the mass of	hour and draw the hands on a clock face to
-Record partitions using part-whole diagrams	two or three objects.	show these times
alongside number sentences.	-Combine the mass of two objects (measured using	Know how many minutes there are in an
-Use partitions of 5,6 and7to derive associated	non-standard units such as 'cubes') to find the total	hour and half an hour
subtraction facts.	and the difference between the number of cubes.	
- Use partitioning and part-whole diagrams to read,	-Read, write and interpret mathematical statements	Geometry
write and interpret mathematical statements to 10.	involving addition (+) , subtraction (-) and equals (=)	Recognise and name 3-D shapes, including
-Solve one-step problems that involve addition and	signs.	cuboids, pyramids and spheres.
subtraction, using concrete objects and pictorial	-Solve simple one-step word problems in the context	Describe position, directions and
representations	of mass that involve addition and subtraction to 20,	movements including $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ turns
Place Value	using concrete objects and pictorial representations	
-Count in 10s to 50.	O a sure that	
-Given a number, identify one more and one less by	Geometry	
counting out objects and augmenting or reducing the group by one	Recognise and name common 2-D shapes,	
-Use the language of one more than 6 is 7; one less	including squares, circles, rectangles, and triangles	
that 7 is 6		
-Use a context to solve problems involving one more		
and one less		
- Introduce the number-line with practical objects to		
develop understanding of how numbers relate to one		
another and to support ordering. Make collections of		
10, 20 and 30 objects		
-Order numbers to 30 starting from any number		
between 1 and 10		
Multiplication & Division		
-Count reliably in 2s.		
- Link counting in 2s to grouping objects and to the		
pattern of numbers on a number-line.		
- Solve problems involving pairs of objects, groups of		
2 using pictorial recording.		

groups - Shar each g - Reco	arse together the language of 'How many s of 2 are there?' ~ 'There are 3 groups of 2' e objects equally by counting how many in proup gnise and name a half as one of two equal of a quantity		
Year	1 Ready to progress criteria		
NPV	Count within 100, forwards and backwards, starting with any number		
NF	Reason about the location of numbers to 20 within the linear number system, including comparing using < > and = Develop fluency in addition and subtraction facts within 20 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards		
AS	through the odd numbers Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers. Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to real-life contexts Add and subtract one-digit and two-digit numbers to 20 Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems		
MD F	such as 7 = -9. Share objects equally by counting how many in each group Recognise and name a half as one of two equal parts of a quantity Recognise and name a half as one of two equal parts of a shape		
М	Recognise and hame a ham as one of two equal parts of a shape Recognise and know the value of different denominations of coins and notes Sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening Recognise and use language relating to dates, including days of the week, weeks, months and years		
G	Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations		

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	YE	AR 2
Autumn	Spring	Summer
Place Value	Number & PV with Addition and Subtraction	Multiplication & Division
Count in steps of 2 from 0 and in tens from any	Add and subtract numbers using concrete objects,	Count reliably in 2s, 5s and 10s from zero,
number, forward or backward.	pictorial representations (number-lines) and mentally,	forward or backward. Show on a number-
Count in steps of 5	including a two-digit number and ones and a two-digit	line.
Recognise the place value of each digit in a 2-digit	number and tens.	Recall and use multiplication and division
number	Add three one-digit numbers	facts for the 2, 5 and 10 multiplication
Count objects up to 100 by making tens	Use partitions of 5,6,7,8,9 to bridge through 10 when	tables, including recognising odds and
Partition numbers to 100	adding and subtracting. Record on number-lines and	evens.
Partition numbers flexibly	as a number sentence.	Solve problems involving multiplication and
Count by 10s on a numberline	Show that addition of two numbers can be done in	division, using materials, arrays, repeated
Identify, represent and estimate numbers using	any order (commutative) and subtraction of one	addition, mental methods.
different representations, including the number line.	number from another cannot	Use the multiplication (x) and equals (=)
Compare and order numbers from 0 to 100; use < >		signs to show solutions alongside other
and = signs.	Measures (Time, Mass)	representations e.g. arrays and number-
Read and write numbers to at least 100 in numerals	Tell and write the time to five minutes including	lines.
and in words.	quarter past / to the hour and draw the hands on a	Rehearse together and use the language of
Find 10 more or less than a given number	clock face to show these times.	'How many groups of 2 (5, 10) are there?' ~
Use place value and number facts to solve problems	Know how many minutes there are in an hour, half an	'There are 3 groups of 2 (5,10)'
	hour and quarter of an hour	Share objects equally by counting how
	Know the number of hours in a day	many in each group and record pictorially
Mental Maths (half term)	Choose and use appropriate standard units to	(arrays). Recognise the link with
Count on and back from 0-100, find 1 more/less than any number to 100.	estimate and measure mass (kg/g) to the nearest appropriate unit using scales	multiplication facts represented as arrays.
Addition and Subtraction		Number and Place Value
Solve problems with addition and subtraction.	Fractions, Geometry	Recognise the place value of each digit in a
Using concrete objects and pictorial representations,	Identify and describe the properties of 2-D shapes,	2-digit number (10s, ones)
including those involving numbers.	including the number of sides and symmetry in a	Identify, represent and estimate numbers
Apply their increasing knowledge of mental and	vertical line	using different representations including the
written methods.	Identify 2-D shapes on the surface of 3-D shapes, for	number line and in the context of number,
Recall and use addition and subtraction facts to 20.	example a circle on a cylinder and a triangle on a	quantity and measure.
Add and subtract numbers using concrete objects,	pyramid.	Compare and order numbers form zero up
pictorial representations and mentally, including:	Identify and describe the properties of 3-D shapes,	to 100, using < , > and = signs
A two-digit number and ones	including the number of faces, edges and vertices.	Read and write numbers to at least 100 in
A two-digit number and tens		numerals and in words

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	Order and arrange combinations of mathematical	Use place value and number facts
	objects in patterns	Addition and subtraction 🛛 🚬 👔
Multiplication and Division	Recognise, find, name and write fractions as equal	Solve problems with addition and
Recall and use multiplication and division facts for	parts of a shape (link to symmetry and folding).	subtraction applying their increasing
the 2 and 10 multiplication tables, including	Focus on $\frac{1}{2}$, $\frac{1}{4}$, $\frac{2}{4} = \frac{1}{2}$. Introduce $\frac{1}{3}$ and $\frac{3}{4}$ of a	knowledge of mental and written methods
recognizing odd and even numbers.	shape	Recall and use addition and subtraction
Show that multiplication of two numbers can be done		facts to 20 fluently, and derive and use
in any order (commutative).	Multiplication & Division	related facts up to 100
Solve problems involving multiplication and division,	Count reliably in 2s, 5s and 10s from zero, forward or	Add and subtract numbers using concrete
using materials, arrays, repeated addition and mental	backward. Show on a number-line.	objects, pictorial representations and
methods.	Recall and use multiplication and division facts for	mentally including: a 2-digit number and
Count reliably in 2s, 5s and 10s from zero. Introduce	the 2, 5 and 10 multiplication tables, including	ones; a 2-digit number and tens; two 2-digit
counting in 3s from zero. (multiples)	recognising odds and evens.	numbers; adding three 1-digit numbers.
Link counting in 2s, 5s, 10s to grouping objects and	Solve problems involving multiplication and division,	Show that addition of two numbers can be
to the pattern of numbers on a number-line.	using materials, arrays, repeated addition, mental	done in any order and subtraction of one
Solve problems involving groups of 2, 5 and 10	methods.	number from another cannot
objects using pictorial recording.	Use the multiplication (x) and equals (=) signs to	Recognise and use the inverse relationship
Rehearse together the language of 'How many	show solutions alongside other representations e.g.	between addition and subtraction and use
groups of 2 (5, 10) are there?' ~ 'There are 3 groups	arrays and number-lines.	this to check calculations and missing
of 2 (5,10)'	Rehearse together and use the language of 'How	number problems
Construct arrays with concrete objects. Notice that 2	many groups of 2 (5, 10) are there?' \sim 'There are 3	
x 5 = 5 x 2 etc. (Commutativity). Record pictorially.	groups of 2 (5,10)'	Fractions
Develop the concept of sharing and grouping into	Share objects equally by counting how many in each	Recognise, find, name, and write fractions
different sized groups (not just 2s)	group and record pictorially (arrays). Recognise the	of a length, shape, set of objects or quantity
	link with multiplication facts represented as arrays.	(13,14,24,34)
Fractions	Develop the concept of sharing and grouping into	Write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and
Recognise, find, name and write fractions 1/3 and 1/4	different sized groups (not just 2s, 5s and 10s	recognise the equivalence of 2/4
	Number and DV with Subtraction and	Multiplication & Division
Addition and subtraction	Number and PV with Subtraction and	Solve problems involving multiplication and
Given a number, identify one or ten more and one or	Addition	division using materials, arrays, repeated
ten less bridging through tens and through one	Count in 3s from zero to 30, modelling on a number-	addition, mental methods, and multiplication
hundred		and division facts, including problems in
Use the language of two more than 19 is 21; two less	Read and write numbers in numerals and in words to	contexts
than 31 is 29	at least 100.	Recall and use multiplication and division
Count in steps of 10 from any numbers, forward and	Derive and use related facts up to 100. E.g. 3 + 7 and 30 + 70	facts for the 2,5, and 10 multiplication
backward	Order numbers up to 100 starting from any number	tables, including recognising odd and even numbers
Use a context to solve problems involving ten more	crossing the tens boundaries.	
and ten less		

Deepen understanding of the relationship between the concrete and ordinal for numbers up to 100. For example, 43 is four tens and three ones (using concrete objects) and also 43 is three more than 40 (position on a number line) Count back from any given number up using concrete objects and a subtraction and use this to theck diaculations and number line to 10 lot. Given a number, line to 100 between the multiplication (x), division (+) and equals (=) signs Calculate mathematical statements for - untiplication and subtraction and use this to theck diaculations and number problems Revise and thesing number problems Revise and deriving associated subtraction facts to solve problems in a practical context involving their increasing knowledge of mental recall of number subs to 20. Add and subtraction, ado bying their increasing knowledge of mental recall of number subs of coins that equal the same amounts of money. Count back from any given number up to 100. Given any mutber identify any different tombinations of coins that equal the same amounts of money. Count back from any given number up to 100. Given any mutber identify any different tombinations of coins that equal the same amounts to money. Calculate mathematical statements for - Given any mutber identify any different tombinations of coins that equal the same amounts of money. Calculate mathematical statements for - Given any mutber identify any different tombinations of coins that equal the same amounts of money. Measurement Find different combinations of coins that equal the same amounts of money. Subtraction and Addition with statistics indentify the same and tables. Subtraction and Addition with statistics indentify the same unit, including giving change. Find different combinations of coins that equal the same amounts to money.			× •
 example, 43 is four tens and three ones (using concrete objects) and also 43 is three more than 40 (position on a number line) Partition numbers up to 10 into two parts in different combine amounts of money of the same unit. Including gaving change. Partition numbers verse and uses and musting number problems. Represent using part-whole diagrams to read, write and interpret mathematical statements to 20. Solve problems with addition and subtraction, applying their increasing knowledge of mental recall of numbers using concrete objects, pictorial representations of coins that equal the same amounts of money. Measurement Find different combinations of coins that equal the same amounts of money. Recognise and use a particular value. Put coins on a number-line to step-count in 2ps, 5ps and 10ps. Solve problems with Geometry didition and subtraction of money of the same unit. Compare and order lengths using appropriate standard units to compare and order lengths using appropriate standard units (cms). Recognise and ourse y for polems in a practical context involving addition and subtraction of money of the same unit. Gens Propertiems to 220, spacing the units (cms). Recognise and uses appropriate standard units to combina amounts to maes aper lengths. Subtraction and Subtraction with Measurement (Money) Solve problems in a practical context involving addition and subtraction of money of the same unit. Compare and order lengths using appropriate standard units to read dorder lengths, mass, number length, mass, including giving change. Compare and order lengths using appropriate standard units to addition and subtraction of money of the same unit. Compare and order lengths using appropriate standard units to read dorder the properties of 2-D shapes, including the number of sides and symmetry in a "difficunt and subtraction of sone and set appropriate s			
 concrete objects) and also 43 is three more than 40 (position on a number line) Partition numbers up to 10 into two parts in different context to problems Record and use the inverse relationship between addition and subtraction and use this to check calculations and number inverse relationship between addition and subtraction of two numbers can be done in any order (commutative) and division of one number by another cannot. Solve problems with addition and subtraction, applying their increasing knowledge of mental recall of number susing concrete objects, pictorial representations and mentally. Including a 2-digit number and ones : a 2-digit number and tens Add thee one-digit numbers Measurement Find different combinations of coins that equal the same amounts of money. Subtraction and Addition with statistics Interportate standard units composite and tables. As and answer questions about totaling and construct simple tally chart, block diagrams and tables. Solve simple problems in a practical context involving addition and subtraction of money of the same unit. Including giving change. Measurement (Find different combinations of coins that equal the same amounts of money. Count in 2ps, 5ps and 10ps Solve problems in a practical context involving addition and subtraction of money of the same unit. Solve simple problems in a practical context involving addition and subtraction of money of the same unit. Solve simple problems in a practical context involving addition and subtraction of money of the same unit. Solve simple problems in practical context involving addition and subtraction of money of the same unit. Including giving change. Chart block diagrams and tables. Subtraction and Addition with statistics Interportate standard units (cms). Record the results using > , < and = Fractions with Geometry (Identify and describe the properitise of 2-D shapes, including the number of sides and symmetry			
[position on a number line) Partition numbers up to 10 into two parts in different ways using concrete objects such as 2-coloured counters or 2-coloured multi-link bars. Record is a context to problem solve with number bonds to 20Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. Revise and use partitions of all numbers up to 20, recalling and deriving associated subtraction facts to solve problems. Represent using part-whole diagrams to read, write and interpret mathematical statements to 20Show that multiplication of two numbers can be done in any order (commutative) and deriving associated subtraction facts to solve problems. Represent using part-whole diagrams to read, write and interpret mathematical statements to 20Show that multiplication of two numbers can be done in any order (commutative) and deriving model. Use partitioning and part-whole diagrams to read, write and interpret mathematical statements to 20. when solving problems. Develop children's fluency with using known or between e-digit numbers and tens stat and measure is 2 - digit number and ones ; a 2-digit number and tens safd the one-digit numbers write and construct simple tally chart, block diagrams and tables.Reverains same amounts of money.Reuse same amounts of money.Find different combinations of coins that equal the same amounts of money.Subtraction and Addition with statistics interpret and construct simple tally chart, block diagrams and tables.Subtraction and Addition with statistics number folds have aparticular value.Subtraction and subtraction, or diver any order (C); capacity (I/m) to the nearest appropriate standard units (morey)Fractions with Geometry Identify and describe the			
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Fractions with Geometrymodelling on a number-linethe number of hours in a day.Identify and describe the properties of 2-D shapes, including the number of sides and symmetry in amodelling on a number-linethe number of hours in a day. $x_{00} = \pounds1, 2x 50ps = \pounds1, 10 x 10ps = \pounds1, 5 x20p = \pounds1. Relate to tables facts in the context ofGeometry$			
including the number of sides and symmetry in a $20p = \pounds 1$. Relate to tables facts in the context of Geometry			the number of hours in a day.
vortical line		Know 100p = £1, 2x 50ps = £1, 10 x 10ps = £1, 5 x	
vertical line money.		20p = £1. Relate to tables facts in the context of	Geometry
	vertical line	money.	

		X`
Identify 2-D shapes on the surface of 3-D shapes, for example a circle on a cylinder and a triangle on a pyramid. Recognise, find, name and write fractions as equal parts of a shape (link to symmetry and folding). Focus on ½, ¼, 2/4 = ½ Measurement: tell and write the time to five minutes, including quarter past/ to the hour and draw the hands on the clock face to show these times Number and PV with Addition and Subtraction Count in steps of 10 from any number forward or backwards, modelling on a number-line Read and write numbers to at least 100 in numerals and in words Compare and order numbers from zero up to 100 using and = Count back from any given number Given a number, identify one (ten) more and one (ten) less within 100. Use structured number-lines to record addition and subtraction number sentences; 2-digit number to add or subtract some ones. Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations including on the number-line Statistics -Construct simple pictograms and tally charts. -Ask and answer simple questions by counting the number of objects in each category and sorting the number of objects in each category and sorting the categories by quantity	Find different combinations of coins that equal the same amounts of money. Add and subtract 10p(s) to and from an amount of money using 10p and 1p coins and a number-line. Fractions Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of a quantity Write simple fractions e.g. ½ of 6 = 3 , and recognise the equivalence of 2/4 Measurement and Geometry Compare and sort common 2-D and 3-D shapes and everyday objects 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). Choose and use appropriate standard units to estimate and measure length / height in any direction (m / cm); mass (kg/g); temperature (°C); capacity (I/mI) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels. Compare and order lengths, mass, volume/capacity and record the results using more (>) than, less than (<) and equals (=) Derive and use related facts up to 100 Add and subtract numbers using concrete objects, pictorial representations and mentally including two 2-digit numbers Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures	Recognise and name common 2-D shapes, including squares, circles, rectangles and triangles Recognise and name 3-D shapes, including cuboids, pyramids and spheres. Describe position, directions and movements including 12,1,4,34 turns

Year 2 Ready	to progress criteria
NPV	Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning Reason about the location of any two digit number in the linear number system, including identifying the previous and next multiple of 10
NF	Secure fluency in addition and subtraction facts within 10, through continued practice
AS	Add and subtract across 10 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?" Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two digit number Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit number
MD	Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations
F M	Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties

Progression of Skills Lower Key Stage 2			
YEAR 3			
Autumn	Summer		
AutumnPlace Value- Recognise the place value of each digit in a three-digit number-Compare and order numbers-Read and write numbers up to 1000 in numerals and words-Count in multiples of 25 and 1000-Find 10 and 100 more or less than a given number-Identify, represent and estimate numbers using different representations ,including on a number lineAddition & Subtraction-Add and subtract numbers up to 4 digits- Add mentally by bridging numbers-Partition numbers to add two and three-digit numbers-Subtraction 1s, 10s and 100s-Solve addition and subtraction problems in contexts, deciding which operations and methods to use and why-Estimate answers to calculationsMultiplication & Division• Recall and use multiplication and division facts for the 2x, 5x and 10x tables.• Use grid arrays for representing x and ÷ facts• Count in multiples of 3 and 4 from zero	Spring 1Place Value-Compare numbers up to 1000-Order numbers up to 1000Addition & Subtraction• Add and subtraction numbers mentally including a 3-digit number and ones, tens or hundreds• Add and subtract numbers with up to three digits using informal written methods• Estimate the answer to a calculation and use inverse operations to check answers-Use addition written methods to solve word problems• Solve number problems, including contextual problems such as +/- length.Estimate the answer to a calculation and use inverse operations to check answers-Measure the perimeter of simple 2D shapesMeasures (money and time)• Find different combinations of coins that equal the same amounts of money (Y2)• Record money calculations pictorially using bar models and number lines Tell and write the time using 12- and 24-	Summer Place Value -Recall and use multiplication and division facts for 2x, 3x, 4x, 5x, 8x, 10x tables (ongoing) - Round any number to the nearest 10, 100 solve number and practical problems -Read Roman numerals to 100 (I to C) -Tell and write the time on clocks with Roman Numerals Addition & Subtraction -Solve addition and subtraction problems in contexts, deciding which operations and methods to use and why -Use inverse operations to estimate and check answers - Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs -Add and subtract amounts of money to give change using both £ and p in practical contexts Multiplication & Division	
 Derive and recall 3x and 4x tables and associated division facts Write/ recall mathematical statements using mental strategies and known facts (x / ÷) 	 hour clocks Estimate and read the time to the nearest minute Spring 2 	-Solve problems, including missing number problems, involving multiplication and division.	

-Understand that division is sharing and grouping		-Find the effect of dividing a one- or two
Solve problems involving multiplication and division	Fractions	digit number
using number lines, arrays and bars	Recognise and use unit fractions as	by 10 and 100
Fractions and Geometry	numbers on a number line	-Recall and use multiplication and division
Recognise and show fractions, using diagrams	 Recognise and show, using diagrams, 	facts for
-Recognise, find, and write unit fractions of a discrete	equivalent fractions with small, related	-Solving integer scaling problems such as
set of objects including 110	denominators (fraction families)	'four times as long and correspondence
-Compare and order fractions with the same	 Add and subtract fractions with the same 	problems such as 48 sweets shared equally
denominators (bar model and number line)	denominator within one whole(using bar	between 4 children , 12 children, 2 children,
-Recognise that tenths arise from dividing an object	models)	6 children etc
or quantity into ten equal parts	 Compare and order unit fractions 	
- Count up and down in halves, quarters, thirds, and	 Solve problems involving simple fractions 	Properties of shape
tenths on a number line	-Recognise, find and write unit and non-unit	 Recognise 3D shapes in different
-Develop fraction families using fraction walls and bar	fractions of discrete sets of objects with	orientations and describe them
models as an introduction to equivalence	small denominators	 Compare and classify £D shapes
Measures (Money, Length)	-Recognise and use unit and non-unit	including quadrilaterals and triangles,
-Divide a one and two digit number by 10 and 100	fractions with small denominators as	based on their properties and sizes
Record money calculations pictorially using bar	numbers on a number line	Properties
models and number lines		
		0
Measure, compare, add and subtract length in m	Measures	Summer 2
and cm	Measure and compare lengths in m, cm and mm	Summer 2 Properties of shape
	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m	
and cm	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m	
and cm	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m	Properties of shape
and cm Measure the perimeter of simple 2D shapes	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines
and cm Measure the perimeter of simple 2D shapes <i>NPV</i> / <i>Measures</i>	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts,	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes Make 3D shapes using modelling
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts, pictograms and tables	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts, pictograms and tables - Solve one-step problems interpreting scaled bar	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes Make 3D shapes using modelling
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts, pictograms and tables	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number Solve problems in practical contexts	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes Make 3D shapes using modelling materials
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts, pictograms and tables - Solve one-step problems interpreting scaled bar	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number Solve problems in practical contexts Multiplication and Division	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes Make 3D shapes using modelling
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts, pictograms and tables - Solve one-step problems interpreting scaled bar	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number Solve problems in practical contexts Multiplication and Division -Recall and use multiplication and division facts for 2x, 5x and 10 x (Y2) -Derive, recall and use multiplication and	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes Make 3D shapes using modelling materials Fractions Recognise, find and write unit and non-unit
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts, pictograms and tables - Solve one-step problems interpreting scaled bar	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number Solve problems in practical contexts Multiplication and Division -Recall and use multiplication and division facts for 2x, 5x and 10 x (Y2) -Derive, recall and use multiplication and division facts for 3x, 4x and 8x and count in	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes Make 3D shapes using modelling materials
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts, pictograms and tables - Solve one-step problems interpreting scaled bar	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number Solve problems in practical contexts Multiplication and Division -Recall and use multiplication and division facts for 2x, 5x and 10 x (Y2) -Derive, recall and use multiplication and division facts for 3x, 4x and 8x and count in steps of 3 , 4 and 8 from zero	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes Make 3D shapes using modelling materials Fractions Recognise, find and write unit and non-unit
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts, pictograms and tables - Solve one-step problems interpreting scaled bar	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: $50cm = 12 \text{ m}$, $25cm = 14 \text{ m}$, $75cm = 34 \text{ m}$ Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number Solve problems in practical contexts Multiplication and Division -Recall and use multiplication and division facts for 2x, 5x and 10 x (Y2) -Derive, recall and use multiplication and division facts for 3x, 4x and 8x and count in steps of 3, 4 and 8 from zero -Write and calculate multiplication and	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes Make 3D shapes using modelling materials Fractions Recognise, find and write unit and non-unit fractions of discrete sets of objects with small denominators
and cm Measure the perimeter of simple 2D shapes <i>NPV/ Measures</i> Statistics Interpret and present data using bar charts, pictograms and tables - Solve one-step problems interpreting scaled bar	Measure and compare lengths in m, cm and mm Know 10mm = 1cm; 100cm = 1m; 1000mm = 1m Derive associated facts: 50cm = 12 m , 25cm = 14 m , 75cm = 34 m Count up and down in fractions of measure Recognise the place value in 3-digit numbers and say 10 0r 100 more than a given number Solve problems in practical contexts Multiplication and Division -Recall and use multiplication and division facts for 2x, 5x and 10 x (Y2) -Derive, recall and use multiplication and division facts for 3x, 4x and 8x and count in steps of 3 , 4 and 8 from zero	 Properties of shape Identify horizontal and vertical lines Identify pairs of perpendicular and parallel lines Draw 2D shapes Measure the perimeter of 2D shapes Make 3D shapes using modelling materials Fractions Recognise, find and write unit and non-unit fractions of discrete sets of objects with

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-Solve missing number problems involving multiplication and division and an understanding of inverse operations and commutativity for x Geometry -Recognise angles as 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	 -Comparing and ordering unit fractions and those with the same denominator -Recognise and show equivalent fractions using diagrams (bars) equivalent fractions Division -Solve division problems using repeated subtraction on an empty number line -Begin to use the formal method for division with pictorial aids <i>Measures</i> -Measure, compare, add and subtract mass (kg) volume/capacity (I/mI) -Know 1000g= 1kg and derive associated facts e.g. 500g = ½ kg, 250g = ¼ kg -Count up and down in fractions of measure -Telling time to the nearest minute -Record and compare time in terms of duration of events -Accurately read scales <i>Problem solving</i> -Solve problems involving budgeting -Interpret and solve comparison, sum and difference problems -Solve problems involving length using fractions

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YEAR 4 (Sycamore)			
Autumn	Spring	Summer	
Place Value -Recognise the place value of each digit in 4- digit numbers (1000s, 100s, 10s and ones) up to 10,000 -Identify, represent, and estimate numbers using different representations such as number lines - Manipulate 3 and 4 digit numbers through exchange -Compare and order numbers up to 1000 using < , > , = signs -Read and write numbers up to 1000 in numerals and	 Spring 1 Place Value Recognise the place value of each digit in a 4-digit number and numbers to one decimal place Find 1000 more or less than a given number Order and compare numbers beyond 1000 Addition & Subtraction Recall and use complements to 100 and 1000 to 	Place Value Derive, recall and use multiplication and division facts up to 12 x 12 (ongoing) Round any number to the nearest 10, 100 solve number and practical problems -Read Roman numerals to 100 (I to C) -Tell and write the time on clocks with Roman Numerals	
words -Find 10, 100 or 1000 more or less -Round any number to the nearest 10, 100, 1000 Addition & Subtraction -Use formal methods to add -Add and subtract numbers mentally including a 3- digit number and ones , tens, and hundreds -Subtract using a number line -Use the expanded method for subtraction - Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	 Necal and use complements to 100 and 1000 to support mental strategies Add three numbers with a sum of up to 1000 Use the compact method to solve addition calculations Solve problems using addition in the context of perimeter Use the compact method for subtraction Solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why Estimate the answer to a calculation and use inverse operations to check answers 	Addition & Subtraction Solve problems using addition in the context of perimeter -Solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why -Estimate the answer to a calculation and use inverse operations to check answers -Solve comparison, sum and difference problems using information presented in	
 -Solve addition and subtraction one and two-step problems in contexts, deciding which operations to use and why -Use inverse operations to check answers -Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. -Solve comparison, sum and difference problems using information presented in a line graph 	 Measures (money and time) Add and subtract amounts of money to give change using both £ and p and to solve problems Know 100p = £1 = 2x50p = 10 x 10p = 5 x 20p =50 x 2p; relate to multiplication and repeated addition facts Record addition and subtraction money calculations using number lines and bar models. 	<i>Multiplication & Division</i> Divide one-and two-digit numbers by 10 and 100 -Recognise and use factor pairs and commutativity in mental calculations -Revise multiplying two-digit and three-digit numbers by a one-digit number	

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-Statistics: complete, read and interpret information in	• Estimate, compare and calculate with money in £	-Solve integer scaling problems and
tables, including timetables.	and p.	correspondence problems
	Convert between £ and p	Geometry
Multiplication & Division	-Read, write and convert time between analogue	Complete a simple symmetric figure with
-Understand how arrays show multiplication	and digital 12-hour and 24-hour clocks	respect to a specific line of symmetry
-Understand that division is sharing and		Identify lines of symmetry in 2D shapes
-Identify multiples and factors, including finding all	Spring 2	presented in different orientations
factor pairs of a number, and common factors of two	Fractions	
numbers.	Recognise and show common equivalent	Summer 2
-Know and use the vocabulary of prime numbers	fractions with diagrams	Geometry
-Multiply and divide numbers mentally drawing upon	• Solve problems with fractions, fractions of quantities	coomony
known facts	and fractions as division, including non-unit fractions	-Measure and compare the perimeter of
-Multiply and divide whole numbers and those	where the answer is a whole number.	simple 2D shapes
involving decimals by 10, 100	• Find the effect of dividing a one- or two-digit number	-Compare and classify geometric shapes,
-Solve problems involving addition, subtraction,	to 10 and 100, identifying the value of the digits in the	including quadrilaterals and triangles,
multiplication and division	answer as ones, tenths and hundredths.	based on their properties and sizes
-Solve problems involving addition, subtraction,	Count up and down in hundredths	-Describe positions on a 2-D grid as
multiplication and division including using their	• Round decimals with one decimal place to the	coordinates in the first quadrant
knowledge of factors and multiples, squares and	nearest whole number	-Describe movements between positions as
cubes	Link hundredths to dividing by 100	
Fractions	• Recognise and write decimal equivalents to 1/4,	translations of a given unit to the left/right
-Count up and down in tenths (proper and decimal	1/2, ³ / ₄	and up/ down
fractions); recognise that tenths arise from dividing	Compare and order fractions whose denominators	
into ten equal parts	are all multiples of the same number	Fractions
-Count up and down in hundredths, recognise that	Recognise and show families of equivalent fractions	Compare and order unit fractions whose
hundredths arise from dividing by 100	using bar model diagrams	denominators are all multiples of the same
-Round decimals numbers with one decimal place to	- Add and subtract fractions with the same	number
the nearest whole number	denominator , bridging one whole	Solve problems with fractions, fractions as
-Find the effect of dividing a one- or two-digit number		quantities and fraction as division, including
by 10 or 100	Measures (Money, Length)	non-unit fractions where the answer is a
-,	Add and subtract amounts of money to give change	whole number
Measures	using both £ and p and to solve problems	
Know $100p = \pounds 1 = 2x50p = 10 \times 10p = 5 \times 20p = 50 \times 10p$		Recognise and write decimal equivalents to
2p; relate to multiplication and repeated addition facts	Multiplication and Division	1/4, 1/2 and 3/4
Record addition and subtraction money calculations	Multiplication and Division	
using number lines and bar models.	Multiply two-and one-digit numbers by a one-digit	Division
Estimate, compare and calculate with money in £ and	number	Solve division problems with two-digit
p.	-Divide one-and two-digit numbers by 10 and 100	dividends and one-digit divisors, that
P.		involve remainders and interpret

Convert between £ and p	Multiply two-digit and three-digit numbers by a one-	remainders appropriately according to the
	digit number using formal written layout	context
Statistics	-Find the area of rectilinear shapes by counting	Moasuros
resent data using bar charts, pictograms and tables therpret data using bar charts, pictograms and tables	squares	 Measures Measure and compare mass (kg and g) Know 100g = 1kg and derive associated facts 500g = 1/2 kg, 250g = ¼ kg, 750g = ¾ kg Accurately read scales Solve problems involving converting between hours, minutes, seconds, years, months, weeks and days. Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems converting between hours, minutes, seconds, years, months, seconds, years, months, weeks and days Represent time intervals on a number line Know 1 hour = 60 minutes; ½ hour = 30 mins, ¼ hour = 15 mins; ¾ hour = 45 mins; 60 seconds = 1 minute (Y3) and 365 days in a year, with 366 I a leap year, 14 days in a fortnight
vear 3 Ready to progress criteria		Problem Solving -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 and up/ down -Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes

NPV	Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three digit multiples of 10 Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning
	Reason about the location of any three digit number in the linear number system, including identifying the previous and next multiple of 100 and 10 Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts
NF	Secure fluency in addition and subtraction facts that bridge 10, through continued practice Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10)
AS	Calculate complements to 100 Add and subtract up to three-digit numbers using columnar methods Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction
MD	Apply known multiplication and division facts to solve contextual problems with different structures
F	Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts Find unit fractions of quantities using known division facts (multiplication tables fluency) Reason about the location of any fraction within 1 in the linear number system Add and subtract fractions with the same denominator, within 1
G	Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations Draw polygons by joining marked points, and identify parallel and perpendicular sides
Year 4 Ready to progress c	riteria
NPV	Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100 Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and nonstandard partitioning

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NF	Reason about the location of any four digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts
AS	Recall multiplication and division facts up to , and recognise products in multiplication tables as multiples of the corresponding number Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, and interpret remainders appropriately according to the context
	Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100)
MD	Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication Understand and apply the distributive property of multiplication
F	Reason about the location of mixed numbers in the linear number system Convert mixed numbers to improper fractions and vice versa Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers
G	Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the
	angles are equal. Find the perimeter of regular and irregular polygons Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry

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YEAR 4 (Willow)			
Autumn	Spring	Summer	
Number and Place ValueMail-Recognise the place value of each digit in 4- digit numbers (1000s, 100s, 10s and ones) up to 10,000- Add Add Add- Identify, represent, and estimate numbers using different representations such as number lines -Identify Roman Numerals up to 100 -Order and cOmpare numbers - Find 10, 100 or 1000 more or less - Identify, represent and estimate numbers using different representations - Round any number to the nearest 10, 100, 1000 - Recall and use addition and subtraction facts to 20 fluently and derive facts to 100 - Compare and order numbers up to 1000 using < , > , = signs - Add and subtract numbers mentally including a 3- digit number and ones, tens, and hundreds. (Y3) - Estimate the answer to a calculation and use inverse operations to check answers - Solve addition and subtraction two-step problems in contexts, deciding which operations to use and whyMail - Add - Add - Add - Add - Add - Add and subtract numbers up to 4 digits using formal written methods - Solve addition and subtraction one and two step problems in contexts, deciding which operations and methods to use and why and in the context of statisticsMail - Add - Add - Add - Add - Add - Add and subtract numbers up to 4 digits using formal written methods - Solve addition and subtraction one and two step problems in contexts, deciding which operations and methods to use and why and in the context of statisticsMail - Add - Ad	Measures Accurately read the time Addition and Subtraction Add and subtract numbers with up to 4 digits Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why Estimate and use inverse operations to check inswers to calculations Solve comparison, sum and difference problems using information presented in bar charts, bictograms, tables and other graphs. Multiplication and Division Recall 2/3/4/5/6/8 multiplication and division facts for nultiplication tables Use place value, known and derived facts to multiply and divide including: multiplying by 0 and 1 multiply two-digit and three-digit numbers by a one- ligit number Solve problems involving multiplying and adding using the distributive law to multiply two digit numbers by one digit, integer scaling problems and uarder correspondence problems such as n objects re connected to m objects. Solve two - step problems in contexts, deciding which operations and methods to use and why. Fractions and Decimals Recognise and show common equivalent fractions with diagrams	Summer Statistics Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs -Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. Number and measure -Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why -solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. -Recall multiplication and division facts for all multiplication tables -Use place value, known and derived facts to multiply and divide including: * multiplying by 0 and 1 * multiplying by 0 and 1 * multiply two-digit and three-digit numbers by a one-digit number -Solve problems involving multiplying and adding using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	



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 Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. Estimate and use inverse operations to check answers to a calculation. <i>Multiplication and Division</i> Recall 2/3/4/5/6/8 multiplication and division facts for multiplication tables Solve problems involving multiplying and adding using the distributive law to multiply two digit numbers by one digit and integer scaling problems <i>Fractions</i> Recognise and show fractions of equivalent fractions using bar model diagrams Compare and order fractions Explore fractions up to and greater than 1 Find the effect of dividing a one- or two-digit number by 10 and 100 Recognise and show, using diagrams Add and subtract fractions with the same denominator Solve problems involving increasingly harder factions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number <i>Geometry</i> Compare and classify geometric shapes, including quadrilaterals based on their properties and sizes Identify acute and obtuse angles Complete a simple symmetric figure with respect to a specific line of symmetry Identify lines of symmetry Identify lines of symmetry in 2-D shapes presented in different orientations 	 -Solve problems with fractions , fractions of quantities and fractions as division, including non-unit fractions where the answer is a whole number. -Find the effect of dividing a one- or two-digit number to 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. -Count up and down in hundredths -Round decimals with one decimal place to the nearest whole number -Link hundredths to dividing by 100 -Recognise and write decimal equivalents to ¼, ½ and ¾ -Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes -Identify lines of symmetry in 2-D shapes presented in different orientations Measure - Estimate, compare and calculate different measures, including money in pounds and pence - 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. 	 Geometry / Measure Describe position, direction and movement, including whole, half, quarter and three-quarter turns Multiplication Multiply two-digit and three-digit numbers by a one-digit number Solve problems involving multiplying and adding using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder
-Identify lines of symmetry in 2-D shapes presented in different orientations	and sizes -Draw and describe points and shapes using co	money in £ and p - Read, write and convert between

 -Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres -Find the area of rectilinear shapes by counting squares -Estimate, compare and calculate different measures, including money in pounds and pence Decimals -Understand and write decimal numbers -Round decimals with one decimal place to the nearest whole number -Convert between £ and p -Estimate, compare and calculate with money in £ and p -Solve simple measure and money problems involving fractions and decimals to two decimal places 	 Fractions and Decimals Solve problems involving to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number Recognise and show, using diagrams, families of common equivalent fractions Recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten. Measure (Time) Read, write and convert time between analogue and digital 12-hour and 24-hour clocks Solve problems involving converting between hours, minutes, seconds, years, months, weeks and days. Represent time intervals on a number line Know 1 hour = 60 minutes; 12 hour = 30 mins, 14 hour = 15 mins; 34 hour = 45 mins; 60 seconds = 1 minute (Y3) and 365 days in a year, with 366 I a leap year, 14 days in a fortnight 	
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Pr	Progression of Skills Upper Key Stage 2		
YEAR 5 (Willow)			
Autumn	Spring	Summer	
Number and Place Value, Addition and Subtraction -Read, write, order and compare numbers to at least 100,000 and determine the value of each digit - Identify, represent and estimate numbers using different representations	Measures -Accurately read the time Addition and Subtraction -Count forwards or backwards in steps of powers of 10 up to 1,000,000 -Interpret pagative numbers in context, count	Solve comparison, sum and difference problems using information presented in a line graph Geometry / Measure	
 different representations Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. Order and compare numbers up 10 100,000 Round any number to the nearest 10,100,1000, 10 000 and 100 000 Add and subtract whole numbers with more than four digits using informal and formal written methods Use rounding to check answers and determine, in the context of the problem, the level of accuracy. Solve addition and subtraction multi-step problems, deciding which operations to use and why Measure and calculate the perimeter of composite rectilinear shapes in cm and m Use all four operations to solve problems involving length, using decimal notation Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. Addition and Subtraction, statistics Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Statistics: complete, read and interpret information in tables, including timetables. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods 	 -Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. -Solve comparison, sum and difference problems using information presented in a line graph <i>Multiplication and Division</i> - Know and use multiplication and division facts up to 12 x 12 - Multiply three numbers together, knowing that this can be done in any order -Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers -Multiply numbers up to 4 digits by a one- or two-digit number using multiplication and division and a combination of these, including understanding the meaning of the equals sign -Recognise and use square numbers, and the notation for squared (²) -Solve multi-step problems in contexts, deciding which operations and methods to use and why. 	 -Calculate and compare the area of rectangle (including squares) and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metre <i>Multiplication and Division</i> -Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers -Multiply numbers up to 4 digits by a one- or two-digit number using Multiplication and division and a combination of these, including understanding the meaning of the equals sign -Recognise and use square numbers, and the notation for squared (2) -Solve addition and subtraction multi-step problems (year 4 2 step problems, year 5 more than 2) in contexts, deciding which operations and methods to use and why. <i>Measure</i> -Use all four operations to solve problems 	
-Solve addition and subtraction multi-step problems		Measure	

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Multiplication and Division -Recall and use multiplication and division facts up to 12 x 12 and derive related facts -Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. -Know and use the vocabulary of prime numbers -Multiply and divide numbers mentally drawing upon known facts -Multiply and divide whole numbers and those involving decimals by 10, 100 -Solve problems involving addition, subtraction, multiplication and division -Solve problems involving addition, subtraction, multiplication and division including using their knowledge of factors and multiples, squares and cubes Fractions -Compare and order fractions whose denominators are all multiples of the same number -Calculate and compare fractions of amounts Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. 2/5 + 4/5 = 6/5 = 11/5) -Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths -Add and subtract fractions with the same denominator and multiples of the same number -Calculate change Estimate and total money amounts -Calculate change Keasure - Identify 3-D shapes, including cubes and other cuboids, from 2-D representations -Know angles are measured in degrees	 Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 or those with a denominator of a multiple 10 or 25. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Read and write decimal numbers as fractions (e.g. 0.71 = 71/100) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction and as a decimal fraction. <i>Measure</i> Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling. Convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints Estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids) and capacity (e.g. using water) Geometry -Calculate and compare the area of rectangle (including squares) and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres draw given angles, and to measure them in degrees use the properties of rectangles to deduce related facts and find missing lengths and angles 	 convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) understand and use equivalences between metric units and common imperial units such as inches, pounds and pints estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids) and capacity (e.g. using water) To solve problems involving addition, subtraction, multiplication and division <i>Fractions, Decimals and</i> <i>Percentages</i> Solve problems involving number up to three decimal places Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 or those with a denominator of a multiple 10 or 25. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Read and write decimal numbers as fractions (e.g. 0.71 = 71/100) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents -Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction and as a decimal fraction.

(m2) and estimate the are - identify: angles at a poin 360o) Decimals	nt units of metric measure ne perimeter of composite metres and metres he area of rectangle including using standard (cm2) and square metres	 distinguish between regular and Irregular polygons based on reasoning about equal sides and angles <i>Fractions, Decimals and Percentages</i> Solve problems involving number up to three decimal places Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 or those with a denominator of a multiple 10 or 25. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Read and write decimal numbers as fractions (e.g. 0.71 = 71/100) Recognise and use thousandths and relate them to 	
places -Round decimals with two nearest whole number an -Use all four operations to measure using decimal no	decimal places to the d to one decimal place solve problems involving	tenths, hundredths and decimal equivalents -Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction and as a decimal fraction.	
Year 4 Ready to progr NPV	Know that 10 hundreds ar out how many 100s there Recognise the place value and nonstandard partition Reason about the location multiple of 1,000 and 100,	e equivalent to 1 thousand, and that 1,000 is 10 times th are in other four-digit multiples of 100 e of each digit in four-digit numbers, and compose and de ing of any four digit number in the linear number system, in and rounding to the nearest of each nd 10 equal parts, and read scales/number lines marked	ecompose four-digit numbers using standard
NF	number	livision facts up to , and recognise products in multiplicat vith two-digit dividends and one-digit divisors, that involve the context	
AS MD		dge to known additive and multiplicative number facts (so numbers by 10 and 100 (keeping to whole number quotion) 10 times the size	

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	Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication Understand and apply the distributive property of multiplication
F	Reason about the location of mixed numbers in the linear number system
	Convert mixed numbers to improper fractions and vice versa
	Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers
М	Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant
	Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the
	angles are equal. Find the perimeter of regular and irregular polygons
	Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a
	symmetric figure or pattern with respect to a specified line of symmetry
Year 5 Ready to progr	
NPV	Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to
	1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.
	Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with
	up to 2 decimal places using standard and nonstandard partitioning
	Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the
	previous and next multiple of 1 and 0.1 and rounding to the nearest of each
NF	Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts Convert between units of measure, including using common decimals and fractions
	Secure fluency in multiplication table facts, and corresponding division facts, through continued practice
	Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth)
AS	
MD	Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1
	tenth or 1 hundredth times the size
	Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given
	number as a product of 2 or 3 factors.
	Multiply any whole number with up to 4 digits by any one-digit number using a formal written method

F	Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context
	Find non-unit fractions of quantities Find equivalent fractions and understand that they have the same value and the same position in the linear number system Recall decimal fraction equivalents for , , and , and for multiples of these proper fractions
M	Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size Compare areas and calculate the area of rectangles (including squares) using standard units

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YEAR 5 (YEW)		
Autumn	Spring	Summer 💦 🍋
Number and Place Value, Addition and	NPV with measurement	
Subtraction	Read and write tenths and hundredths as decimals	Consolidate our understanding of multiples,
-Read, write, order and compare numbers to at least	or fractions	factors and primes
100,000 and determine the value of each digit	-Round decimals with two decimal places to the	Revise multiplying, dividing by powers of
- Compare and order whole numbers to at least	nearest whole number	ten and missing number problems
100,000	Round decimals with two decimals places to the	Revise work on coordinates
Count forwards and back in steps of powers of 10	nearest whole number or tenth	Revise work on statistics
from any given number to a million	-Multiply and divide numbers by 10, 100 and 1000	Revise work on ratio
-Identify, represent, and estimate numbers using	where are answers are up to 3 decimal places	Revise percentages of amounts and solve
different representations	-Convert between different units of metric measure	problems using the skill
-Round any number to the nearest 10,100,1000, 10	-Use all four operations to solve problems involving	Revise multiplying numbers up to 4 digits
000 and 100 000	measure (mass and capacity) using decimal notation	by 2 digit numbers
-Use rounding to check answers and determine, in	including scaling	Revise dividing 4 digit numbers by 1 and 2
the context of the problem, the level of accuracy.	-Read, write and convert time between analogue and	digit numbers using formal methods
-Interpret negative numbers in context, count	digital time and solve time problems	Revise addition and subtraction of fractions
forwards and backwards with positive and negative	-Solve problems involving converting between units of time	with unlike numbers, including mixed
numbers through zero (link number-line to a	- Convert between different units of metric measure	numbers
thermometer)	(link to scaling $x / \div 10$, 100, 1000)	Multiply proper fractions by whole numbers Read and write decimal numbers as
-Add and subtract whole numbers with up to 5 digits	- Estimate capacity in litres and ml	fractions and vice versa
using informal and formal written methods	-Read scales graded in different sized intervals	Reason about properties of 3D shapes and
-Subtract whole numbers with up to 5 digits using an efficient written method	-Understand and use equivalences between metric	their nets
- Solve addition and subtraction multi-step problems,	units and common imperial units such as inches,	Classify quadrilaterals and use their
deciding which operations to use and why	pounds, and pints	properties to work out missing angles
-Measure and calculate the perimeter of composite	-Use all four operations to solve problems involving	Use the properties of triangles to find
rectilinear shapes in cm and m	mass and capacity using decimal notation and	missing angles
-Use all four operations to solve problems involving	scaling	
length, using decimal notation	-Use any combination of operations to solve	Half Term
	problems	
Multiplication and Division	-Know that the distributive law means that a(b+c) =	Recognise if a number is divisible by 2, 5,
-Represent multiplication and division facts as grid	ab + ac so 13 x 8 = 8x (10 + 3) = 8 x 10 + 8 x 3	10 and use the rules of divisibility to test for
arrays, linking to rectangular areas, identifying factors	-Multiply numbers up to 4-digits by a one- or two-	divisibility by 3, 4, 6 and 9
as whole number side lengths of rectangles	digit numbers using an appropriate written method	Solve division problems, interpreting the
- Use place value to multiply and divide numbers by		answers appropriately for the context
10 and 100	Geometry	

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	-Know angles are measured in degrees	Consolidate understanding of decimal
- Multiply numbers up to 4-digits by a one- or two-	-Estimate and compare acute, obtuse, and reflex	fractions and operations involving decimals
digit numbers using an appropriate written method	angles	Order and compare decimals showing a
- Calculate and compare the area of rectangles using	-Identify angles at a point and one whole turn (360°),	sound understanding of place value
standard units (m ₂ and cm ₂) and estimate the area of	at a point on a straight line and half a turn (180º),and	Revise equivalences between fractions,
irregular shapes	other multiples of 90°.	decimals and percentages
Use knowledge of multiples to estimate division	-Estimate and compare acute, obtuse, and reflex	Calculate percentages of amounts and
calculations such as $1075 \div 25 \approx 40$ since 4 x 25 =	angles	solve problems involving percentages
100	-Identify angles at a point and one whole turn (360°),	Round decimals to the nearest whole
-Represent division calculations (not the solution) as	at a point on a straight line and half a turn (180°),and	number and decimal place
number-lines and bar models to support conceptual	other multiples of 90°.	Convert to and from 24 hour clock time
understanding before solving.	Know that there are four right angles in a complete	Solve problems involving mass
-Divide numbers up to 4 digits by a 1- digit number	turn and two in a half turn.	Find the volume of cubes and cuboids
using formal methods	-Measure and draw given angles	Interpret and present data in a line graph
	- Identify, describe, and represent the position of a	Solve problems involving mass
HALF TERM	shape following a reflection or translation. Know that	Find the volume of cubes and cuboids
Multiplication and Division	the shape has not changed, and internal angles are	Interpret and present data in a line graph
-Solve calculation problems involving division and	preserved	
interpret remainders	- Describe and plot positions in the first quadrant	
-Identify factors and multiples, finding all factor pairs	-Draw and translate points and simple shapes on the	
of a number and common factors of two numbers.	co ordinate plane	Geometry
- Know prime numbers to 20	-Identify, describe and represent the position of a	-Plot points on a coordinate grid in the first
-Recall square numbers and cube numbers, and the	shape following reflection	quadrant (moving to all four quadrants as
notation for them	-Read, write and draw line graphs	appropriate)
-Understand and use the terms factor, multiple,	NPV, measurement and operations	-Identify, describe and represent the
prime, square and cube numbers and use them to		position of a shape following a reflection or
construct statements such as 4 x 35 = 2 x 2 x 35	-Round decimals with two decimals places to the	a translation, using appropriate language
-Use place value to multiply and divide numbers by	nearest whole number or tenth	and know that the shape has not changed
10 and 100	- Convert between different units of metric measure	-Plot points on a coordinate grid in the first
-Use knowledge of multiples to estimate division	(link to scaling $x / \div 10$, 100, 1000)	quadrant (moving to all four quadrants as
calculations such as $1075 \div 25 \approx 40$ since $4 \times 25 =$	- Estimate capacity in litres and ml	appropriate)
100	-Read scales graded in different sized intervals	-Identify, describe and represent the
	-Understand and use equivalences between metric	position of a shape following a reflection or
Fractions	units and common imperial units such as inches,	a translation, using appropriate language
-Use common factors to simplify fractions	pounds, and pints	and know that the shape has not changed
-Identify, name, and write equivalent fractions of a	-Use all four operations to solve problems involving	-Distinguish between regular and irregular
given fraction, including tenths and hundredths	mass and capacity using decimal notation and	polygons based on reasoning about equal
	scaling	sides and angles

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-Add and subtract fractions with the same	Fractions and Decimals	×
denominator (Y4)	-Add and subtract fractions with the same	Multiplication and Division 🦳 👔
-Compare and order fractions whose denominators	denominator beyond one and multiples of the same	-Identify multiples and factors, including all
are multiples of the same number	number. Use diagrams such as bar models to show	factor pairs of a number and common
-Recognise mixed numbers and improper fractions	part-part-whole relationships	factors of two numbers
and convert from one to another	-Know that 1/10 = 0.1 and 1/100 = 0.01	-Know and use prime numbers, prime
-Write fractions >1 as a mixed number	-Recognise the percent symbol (%) and understand	factors and composite (non-prime) numbers
- Add and subtract fractions with the same	that percent relates to the number of parts per 100,	and associated vocabulary.
denominator beyond 1 and those with denominators	write percentages as a fraction with the denominator	-Construct arrays for prime numbers and
that are multiples of the same number	100 and as a decimal fraction	know that they have exactly two factors.
-Multiply proper fractions by a one digit number	-Write percentages as a fraction with a denominator	- Recognise and use square numbers and
-Read and write tenths and hundredths as decimals	of 100 and as a decimal fraction	cube numbers and the associated notation
or fractions	-Know percentage and decimal equivalents	(2 and 3).
-Round decimals with two decimal places to the	- Read and write decimal numbers as fractions	-Construct arrays for square numbers and
nearest whole number	- Recognise and use thousandths	know that they have an odd number of
Round decimals with two decimals places to the	- Round decimals with two decimal places to the	factors
nearest whole number or tenth	nearest whole number or tenth	- Solve problems involving all four
-Multiply and divide numbers by 10, 100 and 1000	-Solve problems which require knowing percentage	operations including using knowledge of
where are answers are up to 3 decimal places	and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5	factors, multiples, primes, squares and
-Convert between different units of metric measure	-Identify, name, and write equivalent fractions of a	cubes
-Use all four operations to solve problems involving	given fraction, represented visually, including tenths	-Multiply numbers up to 4-digits by one- or
measure (mass and capacity) using decimal notation	and hundredths.	two-digit numbers, drawing upon known
including scaling	- Read and write decimal numbers as fractions (e.g.	facts
-Read, write and convert time between analogue and	0.71 = 71/100)	- Multiply and divide whole numbers and
digital time and solve time problems	-Recognise and use thousandths and relate them to	those involving decimals by 10, 100 and
-Solve problems involving converting between units	tenths, hundredths, and decimal equivalents	1000.
of time	-Round decimals with two decimal places to the	-Solve problems involving multiplication and
	nearest whole number and to one decimal place.	division, including using their knowledge of
	Ratio	factors and multiples
	Geometry and Angles	-Solve problems involving multiplication and
	-Know angles are measured in degrees: estimate	division, including scaling by simple
	and compare acute, obtuse, and reflex angles	fractions (half of a quantity)
	-Estimate and compare acute, obtuse and reflex	
	angles	All 4 Operations (including FDP)
	-Draw given angles, and measure them in degrees	-Solve multi-step problems involving all four
	-Use the properties of rectangles to deduce related	operations in context, deciding which
	facts and find missing lengths and angles	operations and methods to use and why
		-Use a range of appropriate numbers to
		obo a range of appropriate numbers to

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-Calculate area of rectangles, triangles and	solve problems in context, including
parallelograms	integers, fractions decimals and
-Complete, read and interpret information in tables ,	percentages
including time tables	- Use estimation to check answers to
-Identify 3D shapes from 2D representations	calculations and determine, in the context
Addition and Subtraction	of a problem, levels of accuracy,
-Use rounding to check answers to calculations and	interpreting remainders and rounding.
determine, in the context of a problem, levels of	FDP, Geometry
accuracy	Compare and order, add and subtract
-Solve addition and subtraction multi-step problems	fractions whose denominators are all
in context. Deciding which operations and methods to	multiples of the same number • Identify,
use and why	name and write equivalent fractions of a
-Use rounding to check answers to calculations and	given fraction, represent visually, including
determine, in the context of a problem, levels of	tenths and hundredths • Recognise mixed
accuracy	numbers and improper fractions and
-Solve addition and subtraction multi-step problems	convert between both forms. Write
in context. Deciding which operations and methods to	fractional number sentences >1 as mixed
use and why.	numbers and improper fractions • Multiply
-Solve problems involving numbers and measure	proper fractions and mixed numbers by
with up to three decimal places	whole numbers (integers), supported by
representations	materials and diagrams. • Know angles are
Statistics	measured in degrees • Estimate and
-Solve comparison, sum and difference problems	compare acute, obtuse and reflex angles •
using information presented in a line graph	Draw given angles and measure them in
- Complete, read and interpret information in tables	degrees • Identify angles at a point and one
Fractions, Measurement	whole turn (360°), at a point on a straight
	line and half a turn (180°), and other
I ladoute a local control and the second	multiples of 90°. • Use the properties of
Understand and use equivalences between metric	rectangles to deduce related facts and find
units and common imperial units such as inches,	missing lengths and angles • Recognise the
pounds, and pints	per cent symbol (%) and understand that it
-Estimate volume using 1cm3 blocks to build	relates to the number of parts per 100 •
cuboids, and capacity using measuring jugs and	Write percentages as a fraction with 100 as
cylinders	the denominator and as a decimal fraction •
-Identify 3D shapes from 2D representations	Solve problems which require knowing
-Construct 3D models using their nets and estimate	percentage and decimal equivalents • Solve
their volume	
	simple percentages of amounts problems,

 Multiply three numbers together, understanding the this can be done in any order, and linking to the volume of cuboids Solve problems involving capacity, including reading a range of scales. Multiply proper fractions and mixed numbers by a whole number, supported by materials and diagram -Solve problems involving decimal and percentage equivalents Read, write, order, and compare numbers with up three decimal places, and solve problems involving these numbers 	division by 100, 10 and 2
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YEAR 6		
Autumn	Spring	Summer 💦 🏹
Number and Place Value, Addition and	NPV with measurement	Revision
Subtraction	- Read and write tenths, hundredths and thousandths	Consolidate our understanding of multiples,
Read, write, and compare numbers to at least	as decimals or fractions	factors, primes and order of operations
10,000,000 and determine the value of each digit	-Order and compare decimal fractions	Revise multiplying, dividing by powers of
Identify, represent, and estimate numbers using	-Round decimals to the nearest whole number and	ten and missing number problems
different representations including number lines	one decimal place	Revise work on coordinates
Count forwards and backwards in steps of powers of		Revise work on ratio and scale factor
10 from any given number to a million	Geometry	Revise percentages of amounts and solve
Compare and order whole numbers to at least a	-Know angles are measured in degrees	problems using the skill
million	-Estimate and compare acute, obtuse and reflex	Revise multiplying numbers up to 4 digits
Round any whole number to a required degree of	angles	by 2 digit numbers
accuracy	-Find unknown angles in triangles, quadrilaterals, and	Revise dividing 4 digit numbers by 1 and 2
-Interpret negative numbers in context and calculate	regular polygons	digit numbers using formal methods
ntervals across zero	- Recognise angles at a point, on a straight line and	Find the mean average
-Add and subtract whole numbers with more than 4	vertically opposite and use this to find missing angles	Revise addition and subtraction of fractions
digits using informal and formal written methods as	-Estimate, measure and draw given angles	with unlike numbers, including mixed
appropriate	- Draw 2D shapes using given dimensions and	numbers
Solve addition and subtraction multi-step problems	angles	Multiply and divide proper fractions by
n context, deciding which operations and methods	-Illustrate and name part of circles, including radius,	whole numbers
to use and why	diameter, and circumference	Read and write decimal numbers as
Measure and calculate the perimeter of composite	-Know that the diameter is twice the radius	fractions and vice versa
rectilinear shapes in cm and m		Reason about properties of 3D shapes and their nets
-Perform mental calculations, including with mixed	Number and Place Value, Addition,	Classify guadrilaterals and use their
operations and large numbers -Multiply and divide mentally by 10, 100 and 1000	Subtraction, Multiplication and Division,	properties to work out missing angles
-Use our knowledge of the order of operations to	Measurement and Statistics	Use the properties of triangles to find
carry out calculations involving the four operations	-Add and subtract numbers with up to two decimal	missing angles
-Use estimation to check answers to calculations and	places	
determine, in the context of a problems, levels of	-Multiply and divide numbers by 10,100 and 1000	Half Term
accuracy	where answers have up to three decimal places	
-Recognise shapes with the same area can have	-Use oral and written methods to multiply decimal	Recognise if a number is divisible by 2, 5,
different perimeters and vice versa	numbers	10 and use the rules of divisibility to test for
	-Calculate the area of rectilinear shapes	divisibility by 3, 4, 6 and 9
Multiplication and Division and Equations	-Use division methods in cases where the answer	Solve division problems, interpreting the
	has 2 decimal places	answers appropriately for the context

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-Represent multiplication and division facts as grid	-Calculate the area of parallelograms and triangles	Consolidate understanding of decimal
arrays, linking to rectangular areas, identifying factors	where some sides are decimal numbers	fractions and operations involving decimals
as whole number side lengths of rectangles	-Convert measurements of length, mass and capacity	Order and compare decimals showing a
Use place value to multiply and divide numbers by 10	-Convert between imperial and metric units	sound understanding of place value
and 100	-Solve problems involving scaling numbers and	Revise equivalences between fractions,
-Multiply numbers up to 4 digits by a 1 digit or 2 digit	quantities	decimals and percentages
number using formal methods	-Describe and plot positions on a grid in all four	Calculate percentages of amounts and
-Calculate and compare the area of rectangles using	quadrants	solve problems involving percentages
standard units (m2 and cm2) and estimate the area of	-Draw and translate points and simple shapes in the	Round decimals to the nearest whole
irregular shapes	full coordinate place and reflect them in the axes	number and decimal place
Divide numbers up to 4-digits by a 2-digit whole	-Identify, describe and represent the position of a	Convert to and from 24 hour clock time
number using a formal written method of long division	shape following a reflection	Solve problems converting between units of
(see NC appendix for methods) and interpret	-Read, interpret and draw line graphs	time
remainders as a whole number, fraction, or by		Calculate time durations
rounding as appropriate for the context	Ratio and proportion; FDP	Convert between units of measure
-Express remainders to division calculations as	-Solve problems involving scaling numbers and	Solve problems involving mass
decimals or fractions	quantities	Find the volume of cubes and cuboids
Divide numbers up to 4 digits by a 2 digit number	-Solve problems involving the relative size of two	Interpret and present data in a line graph
using long division	quantities where answers can be found using	
-Identify factors and multiples, finding all factor pairs	multiplication and division	
of a number and common factors of two numbers.	-Solve problems involving the relative size of two	
- Know prime numbers to 20	quantities	Geometry
- Recall square numbers and cube numbers and the notation for them	-Solve problems involving similar shapes where the	-Distinguish between regular and irregular
	scale factor is known or can be found	-Reason about properties of 3D shapes and
Fractions	Decell and use any inclusion between simple	their nets
lles services fosters to simplify fostions	-Recall and use equivalences between simple	-Understand the features of quadrilaterals
-Use common factors to simplify fractions	fractions and percentages in different contexts	-Understand how to find missing angles
- Compare and order fractions	-Recall and use equivalences between simple	based on the rules of quadrilaterals
-Add and subtract fractions with unlike denominators	fractions, decimals and percentages	-Use the properties of triangles to find
-Recognise mixed numbers and improper fractions and convert from one to another	-Solve problems involving percentages of amounts	missing angles
	-Solve problems involving percentages, including	
- Multiply proper fractions by a one-digit number	percentages for comparison	Number and Place Value, Division
-Multiply simple pairs of proper fractions, writing the answer in its simplest form	-Interpret percentages within pie charts and use pie charts to solve problems	-Become confident in using the BODMAS
-Divide proper fractions by whole numbers	- Construct pie charts and use them to solve	Order of Operations
- Read and write tenths, hundredths and thousandths	problems	-Recognise if a number is divisible by 2, 5,
as decimals or fractions		10 and use the rules to test for divisibility by
-Order and compare decimal fractions	Algebra	3, 4, 6 and 9
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-Round decimals to one decimal place	the nearest whole number and	 -Write simple algebraic expressions -Substitute into simple expressions to find a particular value -Express missing number problems algebraically -Solve one step equations -Find pairs of values and list possibilities of combinations Measures -Find the volume of cubes and cuboids -Revise our understanding of FDP equivalence and related facts -Revision Programme 	 -Use a formal written method to divide a three or four digit number by a one or two digit number. - Consolidate understanding of decimal fractions and operations involving decimals -Order and compare decimal fractions Measurement -Understand capacity and convert units of measurement -Solve problems involving mass -Convert to and from 24 hour time -Solve problems converting between units of time -Calculate time durations
Year 5 Ready to p	progress criteria		<u> </u>
NPV	Know that 10 tenths ar to 1 one, and that 1 is the size of 0.01. Recognise the place va with up to 2 decimal place Reason about the loca previous and next mult Divide 1 into 2, 4, 5 an Convert between units Secure fluency in multi	e equivalent to 1 one, and that 1 is 10 times the size of 0 100 times the size of 0.01. Know that 10 hundredths are alue of each digit in numbers with up to 2 decimal places aces using standard and nonstandard partitioning tion of any number with up to 2 decimals places in the lir tiple of 1 and 0.1 and rounding to the nearest of each d 10 equal parts, and read scales/number lines marked i of measure, including using common decimals and fract plication table facts, and corresponding division facts, the wledge to known additive and multiplicative number facts	equivalent to 1 tenth, and that 0.1 is 10 times s, and compose and decompose numbers near number system, including identifying the in units of 1 with 2, 4, 5 and 10 equal parts tions urough continued practice
AS	tenth or 1 hundredth tir		
MD	given number as a pro		

F	Recall decimal fraction equivalents for , , and , and for multiples of these proper fractions
М	Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size Compare areas and calculate the area of rectangles (including squares) using standard units
Year 6 Ready to p	progress criteria
NPV	Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and nonstandard partitioning Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.
NF	
AS	Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number) Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding Solve problems involving ratio relationships Solve problems with 2 unknowns. As above
F	Recognise when fractions can be simplified, and use common factors to simplify fractions Express fractions in a common denomination and use this to compare fractions that are similar in value Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy
M G	Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems