Maths Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
YR	<u>30-50M</u>	Numbers 30-50M	Numbers 40-60+M	Numbers 40-60+M	Numbers 40-60+M	Numbers 40-60+M
	-To use some number names	-To sometimes match numeral and	-To find the total number of	-To find the total number of items	-To find the total number of items in two	-To find the total number of items
	and number language	quantity correctly	items in two groups by	in two groups by counting all of	groups by counting all of them	in two groups by counting all of
	spontaneously	-To show curiosity about numbers by	counting all of them	them	-To say the number that is one more than	them
	-To use some number names	offering comments or asking questions	-To say the number that is one	-To say the number that is one	a given number	-To say the number that is one
	accurately in play	-To compare two groups of objects, saying	more than a given number	more than a given number	-To find one more or one less from a	more than a given number
	-To recite numbers in order to	when they have the same number	-To find one more or one less	-To find one more or one less	group of 5 objects and then 10 objects	-To find one more or one less from
	10	40-60+M	from a group of 5 objects and	from a group of 5 objects and	-To begin to use the vocabulary involved	a group of 5 objects and then 10
	-To know that numbers	-To find the total number of items in two	then 10 objects	then 10 objects	in adding and subtracting in practical	objects
	identify how many objects are	groups by counting all of them	-To begin to use the vocabulary	-To begin to use the vocabulary	activities and discussions	-To begin to use the vocabulary
	in a set	-To say the number that is one more than	involved in adding and	involved in adding and subtracting	-To record, using marks that he/she can	involved in adding and subtracting
	-To begin to represent	a given number	subtracting in practical	in practical activities and	interpret and explain	in practical activities and
	numbers using fingers, marks	-To find one less from a group of 5 objects	activities and discussions	discussions	-To begin to identify his/her own	discussions
	on paper or pictures	and then 10 objects	-To record, using marks that	-To record, using marks that	mathematical problems based on his her	-To record, using marks that
	40-60+M		he/she can interpret and	he/she can interpret and explain	own interests and fascinations	he/she can interpret and explain
	- To recognise some numbers	Shape, space and measures 30-50M	explain	-To begin to identify his/her own	-ELG-Counts reliably with numbers from	-To begin to identify his/her own
	of personal significance	-To use positional language	-To begin to identify his/her	mathematical problems based on	1-20, places them in order and says	mathematical problems based on
	-To count objects to 10 and	-To show interest in shape by sustained	own mathematical problems	his her own interests and	which number is one more or one less	his her own interests and
	beginning to count beyond 10	construction activity	based on his her own interests	fascinations	than a given number	fascinations
	- To select the correct numeral	40-60+M	and fascinations		-ELG-Adds and subtracts, using quantities	-ELG-Counts reliably with numbers
	to represent 1-5, then 1-10	-To describe his/her relative position such		Shape, space and measures 40-	and objects, 2 single digit numbers, and	from 1-20, places them in order
	objects	as 'behind' 'next to.'	Shape, space and measures 40-	<u>60+M</u>	counts on or back to find the answer	and says which number is one
	-To use the language of 'more'	-To order and sequence familiar events	<u>60+M</u>	-To describe his/her relative	-ELG-Solves problems, including	more or one less than a given
	to compare 2 sets of objects	-To measure short periods of time	-To describe his/her relative	position such as 'behind' 'next to.'	doubling, halving and sharing	number
			position such as 'behind' 'next	-To order 2 or 3 items by length or		-ELG-Adds and subtracts, using
	Shape, space and measures 30-		to.'	height	Shape, space and measures 40-60+M	quantities and objects, 2 single
	<u>50M</u>		-To order 2 or 3 items by length	-To order 2 items by weight or	-To describe his/her relative position	digit numbers, and counts on or
	-To show an interest in shape		or height	capacity	such as 'behind' 'next to.'	back to find the answer
	and space by playing with		-To order 2 items by weight or	-To use familiar objects and	-To order 2 or 3 items by length or height	-ELG-Solves problems, including
	shapes or making		capacity	common shapes to create and	-To order 2 items by weight or capacity	doubling, halving and sharing
	arrangements with objects		-To use familiar objects and	recreate patterns and build	-To use familiar objects and common	
	-To show awareness of		common shapes to create and	models	shapes to create and recreate patterns	Shape, space and measures 40-
	similarities of shapes in the		recreate patterns and build	-To use everyday language related	and build models	<u>60+M</u>
	environment		models	to money and time	-To use everyday language related to	-To describe his/her relative
	40-60+M		-To use everyday language	-To order and sequence familiar	money and time	position such as 'behind' 'next to.'
	-To begin to use mathematical		related to money and time	events	-To order and sequence familiar events	-To order 2 or 3 items by length or
	names for solid 3D shapes and		-To order and sequence	-To measure short periods of time	-To measure short periods of time	height
	flat 2D shapes and		familiar events		-ELG-Uses everyday language to talk	-To order 2 items by weight or
	mathematical terms to		-To measure short periods of		about size, weight, capacity, position,	capacity
	describe shapes		time		distance, time and money to compare	-To use familiar objects and
	-To select particular named				quantities and objects to solve problems	common shapes to create and
	shapes				-ELG-Recognises, creates and describes	recreate patterns and build models
	-To use everyday language related to time				patterns	-To use everyday language related
					-ELG-Explores characteristics of everyday	
					objects and shapes and uses	to money and time
					mathematical language to describe them	-To order and sequence familiar
						events
						-To measure short periods of time

						-ELG-Uses everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects to solve problems -ELG-Recognises, creates and describes patterns -ELG-Explores characteristics of everyday objects and shapes and uses mathematical language to describe them
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y1	Number and place value	Number and place value	Number and place value	Number and place value	Number and place value	Number and place value
	Count, read and write numbers from 1 to 20 in numerals and words	Count, read and write numbers from 1 to 40 in numerals.	Count, read and write numbers from 1 to 70 in numerals.	Count, read and write numbers from 1 to 100 in numerals.	Count, read and write numbers from 1 to 100 in numerals.	Count, read and write numbers from 1 to 100 in numerals.
	Identify one more and one less than a given number.	Identify one more and one less than a given number.	Identify one more and one less than a given number.	Identify one more and one less than a given number.	Identify one more and one less than a given number.	Identify one more and one less than a given number.
	Identify and represent numbers using objects and pictorial representations	Identify and represent numbers using objects and pictorial representations Addition and subtraction	Identify and represent numbers using objects and pictorial representations	Identify and represent numbers using objects and pictorial representations	Identify and represent numbers using objects and pictorial representations Count in jumps of 2, 5 and 10.	Identify and represent numbers using objects and pictorial representations
	Addition and subtraction Read and understand number statements using +, - and =. Represent and use number bonds within 10 Add and subtract one digit numbers to 10. Measures Recognise and use language relating to days, weeks, months and years. Use chronological language (before, after, next, first, today, yesterday, tomorrow, morning and afternoon)	Read and understand number statements using +, - and =. Represent and use number bonds within 10 Add and subtract one digit numbers to 10. <u>Measures</u> Compare and describe objects for length and height by using language such as long, short, longer, shorter and tall. Measure length and height.	Count in jumps of 2, 5 and 10. Addition and subtraction. Represent and use number bonds within 20 Add and subtract one digit numbers to 20. Solve one step problems that use addition and subtraction and missing numbers using concrete objects and pictures. <u>Measures</u> Tell the time to the hour and half past the hour and draw the hands onto clock faces. Compare and describe time using language such as quicker, slower, earlier and later. Measure and record time in hours, minutes and seconds. <u>Geometry</u>	Count in jumps of 2, 5 and 10. Addition and subtraction. Represent and use number bonds within 20 Add and subtract one and two digit numbers to 20. Solve one step problems that use addition and subtraction and missing numbers using concrete objects and pictures. Fractions Recognise, find and name halves as one of two equal parts and quarters as one of four equal parts.	 <u>Multiplication and division</u> Solve one step problems involving multiplication and division by using objects, pictures and other equipment <u>Measures</u> Compare and describe objects for mass and weight by using language such as heavier and lighter. Measure weight and mass. Compare and describe objects for capacity and volume by using language such as full, empty, more than, less than, half full and quarter full. 	Count in jumps of 2, 5 and 10. <u>Multiplication and division</u> Solve one step problems involving multiplication and division by using objects, pictures and other equipment <u>Geometry</u> Describe position, direction and movement including whole, half, quarter and three-quarter turns. <u>Measures</u> Recognise and know the value of coins and notes.
			Recognise and name 2D (squares, rectangles, circles and triangles) and 3D shapes			

			(cuboids, cubes, pyramids and spheres).			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Υ2	Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward. Recognise the place value of each digit in a two-digit number (tens, ones). Identify, represent and estimate numbers using different representations, including the number line. Compare and order numbers from 0 up to 100; use <, > and = signs. Read and write numbers to at least 100 in numerals. Read and write numbers to at least 100 in words. Use place value and number facts to solve problems. Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures. Solve problems with addition and subtraction, applying his/her increasing knowledge of mental and written methods. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two-digit number and ones/tens/two two-digit numbers. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a dding three one-digit numbers.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the X, \div and = signs. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Solve problems involving multiplication and division, using concrete materials and mental methods. Solve problems involving multiplication and division using arrays, repeated addition and multiplication and division facts, including problems in contexts. Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) and mass (kg/g), to the nearest appropriate unit, using rulers and scales. Compare and order lengths and mass and record the results using <, > and =.	Choose and use appropriate standard units to estimate and measure temperature (°C) to the nearest appropriate unit, using scales and thermometers. Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data. Use place value and number facts to solve problems. Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures. Solve problems with addition and subtraction, applying his/her increasing knowledge of mental and written methods. Solve problems involving multiplication and division, using concrete materials and mental methods. Solve problems involving multiplication and division using arrays, repeated addition and multiplication and division facts, including problems in contexts.	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amount of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. Identify 2-D shapes on the surface of 3-D shapes, e.g. a circle on a cylinder. Compare and sort common 2-D shapes and everyday objects.	Identify and describe the properties of 3- D shapes, including the number of edges, vertices and faces. Compare and sort common 3-D shapes and everyday objects. Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¼ of a length, shape, set of objects or quantity. Write simple fractions for example, ¼ of 6 = 3 and recognise the equivalence of 2/4 and ½. Order and arrange combinations of mathematical objects in patterns and sequences. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).	Compare and sequence intervals of time. Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. Remember the number of minutes in an hour and the number of hours in a day. Choose and use appropriate standard units to estimate and measure capacity (litres/ml), to the nearest appropriate unit, using measuring vessels. Compare and order volume/capacity and record the results using <, > and =.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y3	Autumn 1 Place Value. - Count from 0 in multiples of 4, 8, 50 and 100; finding 10 and 100 more and less than a given number. - Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones). - Compare and order numbers to 1000. - Read and write numbers to 1000 in words and numerals. - Solve number problems and practical problems with these ideas. Addition and Subtraction - Add and subtract numbers mentally, including 3-digit and ones, 3-digit and tens, 3-digit and hundreds. - Estimate the answer to a calculation and use inverse to check the answer	 Autumn 2 Addition and Subtraction Add numbers with up to 3-digits using a formal method of columnar addition. Subtract numbers with up to 3-digits using a formal method of columnar subtraction. Solve problems using missing number problems, using number facts, place value, and more complex addition and subtraction. Multiplication and Division Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Solve problems including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects. Autumn 2 	Spring 1 Length - Measure, compare, add and subtract: length (m/cm/mm); mass (kg/g); volume/ capacity (l/ml). - writing in m, cm and km. - Comparing length. - Solve worded problems. Volume and Mass - Reading weighing scales. - Solving words problems - Measuring/ Writing volume in Ml, L. - Measuring/ Writing capacity in Ml, L. Solving worded problems - Solving worded problems	 Spring 2 Money Add and subtract amounts of money to give change, using both £ and p in practical contexts. Fractions Solve fraction problems. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities of 10. Recognise, find and write fractions of a discrete set of objects; unit fractions and non-unit fractions with a small denominator. Recognise and write fractions as numbers: unit fractions and non-unit fractions with small denominators. Recognise and show, using diagrams, equivalent fractions with small denominators. Add and subtract fractions with the same denominator within one whole. Compare and order unit fractions with the same denominators. 	Summer 1 Time - Tell and write the time from an analogue clock- including using Roman numerals from I to XII, 12- hour and 24-hour clocks. - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours; use vocabulary such as o'clock, a.m./p.m., morning afternoon, noon and midnight. - Know the number of seconds in a minute and the number of days in each month, year and leap year. Compare durations of events e.g. to calculate the time taken by a particular events or tasks. Summer 1	 Summer 2 <u>Picture Graphs and Bar Graphs</u> Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions using information presented in scaled bar charts, pictograms and tables. <u>Angles and Shape</u> Identify horizontal and vertical line pairs of perpendicular and parallel lines. Recognise that two right angles make a half turn, three turns make ¾ turn and 4 right angles make a whole turn. Identify right angles and identify whether other angles are greater or less than a right angle. Recognise angles as a property of shape or a description of a turn. Draw 2-D and 3-D shapes using modelling material; recognise 3-D shapes in different orientations and describe them
	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.					

the multiplication and division facts the multiplication tables to 12 x 12 Use place value, known and derived is to multiply and divide mentally, uding: multiplying by 0 and 1; dividing 1; multiplying together three numbers tecognise and use factor pairs and nmutativity in mental calculations Multiply two-digit and three-digit nbers by a one-digit number using mal written layout olve problems involving multiplying I adding, including the distributive law nultiply two digit numbers by one digit, eger scaling problems and harder respondence problems such as 'n' ects are connected to 'm' objects Fractions tecognise and show, using diagrams, nilies of common equivalent fractions count up and down in hundredths; ognise that hundredths arise when ding an object by one hundred and ding tenths by ten	 Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to ¼, ½ and ¾ Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Round decimals with one decimal place to the nearest whole number Compare numbers with the same number of decimal places Solve simple measure and money problems involving fractions and decimals to two decimals to two decimal places Convert between different units of measure e.g. km to m; hour to minute 	Properties of Shape 1. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes 2. Identify acute and obtuse angles and compare and order angles up to two right angles by size 3. Identify lines of symmetry in 2-D shapes presented in different orientations 4. Compare a simple symmetric figure with respect to a specific line of symmetry <u>Geometry Position and Direction 1. Describe positions on a 2-D grid as coordinates in the first quadrant 2. Describe movements between positions as translations of a given unit to the left/right and up/down</u>	Extend into Band S 1. Add numbers with up to for using the formal method of co addition 2. Estimate and use inverse of check the answers to a calcul 3. Subtract numbers with up of digits using the formal methor columnar addition 4. Solve addition and subtract step problems in contexts, de which operations and methor and why Multiplication and Div Extend into Band S 1. Recall multiplication tables to 2. Use place value, known and for the multiplication tables to 2. Use place value, known and facts to multiply and divide me including: multiplying by 0 and by 1; multiplying together thr 3. Recognise and use factor p
Use place value, known and derived is to multiply and divide mentally, uding: multiplying by 0 and 1; dividing 1; multiplying together three numbers decognise and use factor pairs and inmutativity in mental calculations Aultiply two-digit and three-digit nbers by a one-digit number using mal written layout olve problems involving multiplying I adding, including the distributive law nultiply two digit numbers by one digit, ger scaling problems and harder respondence problems such as 'n' ects are connected to 'm' objects Fractions decognise and show, using diagrams, iilies of common equivalent fractions count up and down in hundredths; ognise that hundredths arise when ding an object by one hundred and	tenths or hundredths 2. Recognise and write decimal equivalents to ¼, ½ and ¾ 3. Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths 4. Round decimals with one decimal place to the nearest whole number 5. Compare numbers with the same number of decimal places up to two decimal places 6. Solve simple measure and money problems involving fractions and decimals to two decimal places Measurement 1. Convert between different units of measure e.g. km to m;	shapes, including quadrilaterals and triangles, based on their properties and sizes 2. Identify acute and obtuse angles and compare and order angles up to two right angles by size 3. Identify lines of symmetry in 2-D shapes presented in different orientations 4. Compare a simple symmetric figure with respect to a specific line of symmetry <u>Geometry</u> <u>Position and Direction</u> 1. Describe positions on a 2-D grid as coordinates in the first quadrant 2. Describe movements between positions as translations of a given	using the formal method of co addition 2. Estimate and use inverse of check the answers to a calcul 3. Subtract numbers with up digits using the formal methol columnar addition 4. Solve addition and subtract step problems in contexts, de which operations and method and why Multiplication and Div Extend into Band 9 1. Recall multiplication tables t 2. Use place value, known and facts to multiply and divide m including: multiplying by 0 an by 1; multiplying together thr
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ognise that hundredths arise when ding an object by one hundred and	1. Convert between different units of measure e.g. km to m;	positions as translations of a given	
ding an object by one hundred and	units of measure e.g. km to m;		3. Recognise and use factor n
		unit to the left/right and un/down	
ding tenths by ten	hour to minute		commutativity in mental calc
		3. Plot specific points and draw	4. Multiply two-digit and thre
olve problems involving increasingly	2. Measure and calculate the	sides to complete a given polygon	numbers by a one-digit numb
der fractions to calculate quantities,	perimeter of a rectilinear figure	Statistics	formal written layout
fractions to divide quantities,	(including squares) in cm. and	1. Interpret and present discrete	5. Solve problems involving m
uding non-unit fractions where the	m.	and continuous data using	and adding, including the dist
wer is a whole number	3. Find the area of rectilinear	appropriate graphical methods,	to multiply two digit numbers
dd and subtract fractions with the	shapes by counting squares	including bar charts and time	digit, integer scaling problem
ne denominator	4. Estimate, compare and	graphs	correspondence problems su
	calculate different measures,	2. Solve comparison, sum and	objects are connected to 'm'
	including money in pounds and	difference problems using	
	pence	information presented in bar	
	5. Read, write and convert time	charts, pictograms, tables and	
	between analogue and digital	other graphs	
	12- and 24- hour clocks		
	6. Solve problems involving		
	-		
	years to months; weeks to days		
		converting from hours to minutes; minutes to seconds; years to months; weeks to days	minutes; minutes to seconds;

umn 1	Autumn 2	Spring 1	Spring 2	Summer 1

tion	Fractions
5	Extend into Band 5
our digits	1. Recognise and show, using
olumnar	diagrams, families of common
	equivalent fractions
perations to	2. Count up and down in
ations	hundredths; recognise that
to four	hundredths arise when dividing an
od of	object by one hundred and
	dividing tenths by ten
tion two-	3. Solve problems involving
eciding	increasingly harder fractions to
ds to use	calculate quantities, and fractions
	to divide quantities, including non-
vision	unit fractions where the answer is
5	a whole number
j ivision facts	4. Add and subtract fractions with
to 12 x 12	the same denominator
d derived	5. Recognise and write decimal
nentally,	equivalents of any number of
id 1; dividing	tenths or hundredths
ree numbers	6. Recognise and write decimal
airs and	equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$
ulations	7. Find the effect of dividing a
e-digit	one- or two-digit number by 10
per using	and 100, identifying the value of
	the digits in the answer as ones,
nultiplying	tenths and hundredths
tributive law	8. Round decimals with one
s by one	decimal place to the nearest
s and harder	whole number
ch as 'n'	9. Compare numbers with the
objects	same number of decimal places up
00/000	to two decimal places
	10. Solve simple measure and
	money problems involving
	fractions and decimals to two
	decimal places
	l
	Summer 2

numbers to at least 1000000.more than 4 digits including using formal written methodswith denominators of the same multipleplaces to the nearest whole number and decimal place.position of a s reflection or t appropriate langu appropriate langu shape har hundredthsFind the difference between the largest and smallest numbersAdd and subtract numbers mentally with increasingly large numbersWith denominators of the same multiplePlaces to the nearest whole number and decimal place.position of a s reflection or t appropriate langu shape har hundredthsCount forwards and backwards in steps of 10 for any given number up to 1000000Solve addition and subtraction multi step problems deciding which method and operations to use and whyWith denominators with the same denominators with the sameSolve number series metric measure (metric measure (add and subtract fractions with the same denominators with the sameSolve number series metric measure (metric me	75 Place value	Addition and subtraction	Fractions, Decimals	Decimals, percentages	Position and Movemen
Determine the value of each numberwither methodsmultiplemulti				Round decimals with 2 decimal	Identify, describe and represe
number Find the difference between the largest and smallest numbers a Count forwards and backwards in steps of 10 for any given number to the nearest 10, 00, 10	numbers to at least 1000000.	more than 4 digits including using formal	with denominators of the same	places to the nearest whole	position of a shape followin
Find the difference between the largest and smallest numbersincreasingly large numbers determine level of accuracy solve addition and subtraction multi step problems that increasingly large numbers accuracy solve addition and subtraction multi step problems that involves ordering and comparing numbers to 1000000 Solve number groblems that involves ordering and comparing numbers to tables including timetablesIncreasingly large numbers accuracy solve addition and subtraction multi step problems that involves ordering and comparing numbers to tables including timetablesIncreasingly large numbers accuracy solve addition and subtraction multi step problems that involves ordering and comparing numbers to tables including timetablesIncreasingly large numbers accuracy solve addition and division finding all the factors of a number and comparing numbers to tables including timetablesIncreasingly large numbers accuracy solve addition and division the proceed accuracy solve comparison sum and difference problems sup- timetablesIncreasingly large numbers addition and division the proceed accuracy solve addition and division the proceed accuracy solve comparison sum and difference and division add division of unmbers and the notation for squared numbers and the notation for squared numbers and the notation for squaredInterest addition and advision the notation for squared addition and advisionInterest addition and advision the notation for squared the notation for squaredInterest addition advision the notation fo	Determine the value of each	written methods		number and decimal place.	reflection or translation usir
the largest and smallest numbers Count forwards and backwards in steps of 10 for any given number to the nearest 10, 100, 1000, 1000, 1000, 1000 Bound any numbers to inoutber problems that involves ordering and common factorsUse rounding it o check answers and determine level of accuracy use and why Multiplication and division ifonding all the factors including finding all the factors including finding all the factors including finding all the factors including information presented in a line graphUse rounding it o check answers and determine level of accuracy solve a diftion and subtraction multiplesNumdredithsSolve number problems with up to accuracy the same denominator with the same unitiplesNumbers determal problems with ad dong why help and understand that % relates to parts or problems which require know the vocab of prime numbers, prime factors and composite numbers factors and composite numbers formation presented in a line graphUse rounding it o check answers and decimal equivalence and multiple and divide whole numbers and decimal equivalent of haff, quarter, fifth, and relate them to tenths and hundredthsNumber should and relate them to tenths and hundredthsNumber should and relate them and hundredthsNumber should and relate them and hundredthsComplete read and interpret information in tables including timetablesSolve nomber and the notation for squaredNumber should and relate them to tenths and hundredthsNumber should accimal equivalent the addition and sub struct and relate the apoint and on a straight line identify other multiples of Solve problems which compares acute, obuse and reflex angles in degress = clust and compare acute, obuse		Add and subtract numbers mentally with	Identify and name equivalent	Read, write and order and	appropriate language and know
Image: control of		- · -		compare with up to 3 decimal	shape has not changed
Count forwards and backwards in steps of 10 for any given number up to 100000Solve addition and subtraction multi step problems deciding which method and operations to use and why <u>Multiplication and division</u> involves ordering and comparing numbers to 1000003attrice add and subtract fractions add and subtract fractions add and subtract fractions whith esame denominators with the same multiples3metric measure (m, mm; Understand a equivalences I metric measure (add and subtract fractions and denominators with the same denominators with the same denominators with the same denominators with the same denominator subtract fractions and multiples3metric measure (measure (understand the A relates to parts and use thousandths, hundredths and tenths and hundredths and tenths and hundredths3metric measure (mechanize)Solve comparison sum and difference problems subtract in ratios information presented in a line graph Complete read and interpret information in tables including time tablesSolve numbers up to 100 is a methodMultiple and divide whole numbers and decimals by 10, 100, 1000Recognise and use thousandths, hundredthsNord tenths and hundredthsRecognise and use thousandths, and relate them to tenths and hundredthsSolve problems which require knowing percentage and decimal equivalents of half, quarter, fifth, and relate them to tenths and hundredthsSolve problems and equivalents fractions and use thousandths, hundredthsSolve problems and and relate them to tenths and hundredthsSolve problems and and cue tousandths, hundredthsSolve problems and and relate them to tenths and hundredths	_	_			Measurement
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Autumn 1 Autumn 2 Spring 1 Spring 2 Summer 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1

ent .	Area and Perimeter
esent the	Measure and calculate the
ing the	perimeter of composite rectilinear
sing the	shapes in cm and m
ow that the	Calculate and compare the area of
ed.	rectangles and use standard units
	(cm2, m2) and estimate area of
units of	irregular shapes
m; cm and	Estimate volume using 1 cm3
nd ml)	blocks to build cuboids and
oximate	capacity using water
tric and	Roman Numerals
	Read Roman Numerals to 1000
	(M) and recognise years written in
	Roman Numerals
	Time
	Solve problems involving
	converting between units of time
	Summer 2
	Juillel Z

Number and place value	Fractions	<u>Fractions</u>	<u>Measures</u>	Statistic
-Read, write, order and	-Use common factors to simplify fractions	-Recall and use equivalence	-Solve problems involving	-Interpret and construct pie charts
compare numbers up to	& common multiples to express fractions	between simple fractions,	calculation and conversion	line graphs and use these to solve
10,000,000, determining the	in the same denomination	decimals and percentages.	between units of measure (up to	problems.
value of each digit.	-Compare and order fractions (including	-Multiply simple pairs of proper	3dp).	-Calculate and interpret the mean
-Round any whole number to a	>1)	fractions.	-Use, read, write and convert	average.
required degree of accuracy.	-Add and subtract fractions with different	-Divide proper fractions by	between standard units,	-Complete, read and interpret
-Use negative numbers in	denominators and mixed numbers.	whole numbers.	converting measurements of	information in tables, including
context and calculate across	-Recall and use equivalence between	-Associate a fraction with	length, mass, volume and time	timetables.
zero.	simple fractions, decimals and	division and calculate decimal	from a smaller unit of measure to	Algebra
-Solve number and place value	percentages.	fraction equivalents.	a larger and vice versa.	-Use simple formulae
problems ordering and	Geometry (2D)	-Use knowledge of the order of	-Convert between miles and km.	-Generate and describe linear nur
comparing numbers to	-Draw 2D shapes using given dimensions	operations to carry out	Geometry (3D & position and	sequences.
0,000,000.	and angles.	calculations involving the four	movement)	-Express missing number problem
Demonstrate an	-Compare and classify geometric shapes	operations.	-Recognise, describe and build	algebraically.
Inderstanding of place value	based on their properties and size and	Ratio and proportion	simple 3D shapes, including	- Find pairs of numbers that satisf
ncluding decimals.	find unknown angles in triangles,	-Solve problems involving the	making nets.	equation with two unknowns.
fultiplication and division	quadrilaterals and unknown polygons.	relative size of two quantities	-Describe position on the full co-	- Enumerate possibilities of combi
Multiply up to 4 digit by 2	-Illustrate and name parts of circles,	where missing values can be	ordinate grid (all four quadrants).	of two variables.
igits using formal method.	including radius, diameter and	found by using integer	-Draw and translate simple shapes	
Divide up to 4 digits by 2 digits	circumference (knowing diameter is twice	multiplication and division	on the co-ordinate plane and	
sing formal method of long	the radius).	facts.	reflect them in the axis.	
livision (remainders as whole	-Recognise angles where they meet at a	-Solve problems involving the		
umbers, decimals and	point, on a straight line or and vertically	calculation of percentages.		
ractions)	opposite, and find missing angles.	-Solve problems involving		
dentify common factors,	Measures	similar shapes where the scale		
ultiples and prime numbers.	-Recognise that shapes with the same	factor is known or can be		
Perform mental calculations	area can have different perimeters and	found.		
ith mixed operations and	vice versa.	-Solve problems involving		
arge numbers.	-Recognise where it is possible to use	unequal sharing and grouping		
Solve multi-step problems	formulae for area and volume.	using knowledge of fractions		
nvolving addition, subtraction,	-Calculate the area of parallelograms and	and multiples.		
nultiplication and division.	triangles.	-Simplify ratios		
Use estimation to check and	-Calculate and compare volume of cubes	Simplify futios		
letermine and appropriate	and cuboids using standard units.			
legree of accuracy.				
Identify the value of each digit				
n numbers given to 3dp and				
nultiply and divide these by				
10, 100 and 1000.				
Multiply and divide numbers				
vith up to 2dp by whole				
numbers.				
-Use written division methods				
in cases where the answer has				
in cases where the answer has up to 2 dp.				
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nbinations	