

Know Hore.

Devonshire Primary Academy

Maths Long Term Plan

Autumn term Year 6
Autumn term
21.10.24- 29.10.24 Half
term
Finish 20th December
13 weeks including 1
enrichment week commencing
25th November (complete
Autumn Assessment)

The principal focus of mathematics teaching in upper key stage 2 is to ensure that pupils extend their understanding of the number system and place value to include larger integers. This should develop the connections that pupils make between multiplication and division with fractions, decimals, percentages and ratio. At this stage, pupils should develop their ability to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient written and mental methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of algebra as a means for solving a variety of problems. Teaching in geometry and measures should consolidate and extend knowledge developed in number.

Teaching should also ensure that pupils classify shapes with increasingly complex geometric properties and that they learn the vocabulary they need to describe them.

By the end of year 6, pupils should be fluent in written methods for all four operations, **including long multiplication and division**, and in working with fractions, decimals and percentages. Pupils should read, spell and pronounce mathematical vocabulary correctly.

• Previous Learning:

EYFS: Cardinality and Counting. Understanding that the cardinal value of a number refers to the quantity, or 'howmanyness' of things it represents. Subitising and Counting skills and explore the composition of numbers within and beyond 5. Equal, unequal and connecting two equal groups, number facts, counting larger numbers.

Pre School: Number and Counting; say numbers 1-10, recognising numbers, counting objects, count from a group, Days of the week, amounts, decrease, compared, near and far.

Year 1: count to and across 100, forwards and backwards, read and write numbers to 100, count in multiples of 2,5,10, using number lines, language equal, more than, less than, fewer, most, least, read, write and interpret addition and subtraction signs +-=, solve problems including missing numbers, +- one digit and two digit numbers to 20, including 0, number bonds 10/20, arrays, lots of, count in fractions up to 10, $\frac{1}{2}$, $\frac{1}{4}$ equivalence on a number line, recognise, find and name fractions $\frac{1}{2}$ as two equal parts, compare decimals with the same number of up to 2 dp, recognise and name 2D and 3D shapes, describe position and movement including half, quarter and three quarter turn, measurement in height, length and volume, time(hours, seconds and mins) Sequence events.

Year 2: count in steps of 2,3,5 and10 from 0, identify, represent and estimate numbers, read and write numbers to 100, compare and order numbers from 0 up to 100 <>=, recognise the place value of each digit in a 2digit number- tens and ones. Solve number fact problems, mental and written methods, add and subtract two-digit numbers and ones, adding three digit numbers, show commutative, inverse relationships, recall +- facts to 100, multiplication and division symbols, recall 2,5,10 multiplication tables, recognise odd and even numbers, count in tenths, recognise fractions, whole, $\frac{1}{2}$, $\frac{1}{4}$, 1/3, equivalent fractions, 2D, 3D shapes, lines of symmetry, regular and irregular polygons, position and direction- turn, right angles, half turn etc, compare lengths mass and volume, tell the time, pictograms, charts, tables tally's

Year 3: count from 0 in multiples of 4,8,50 and 100, find 10 or 100 more or less than a given number, identify represent and estimate numbers, read and write numbers up to 1000, find 10 or 100 more or less than a given number, identify represent and estimate numbers, read and write numbers up to 1000, recognise place value of each digit in a three digit number (hundreds, tens, ones), solve practical problems, addition and subtraction one step problems, add and subtract mentally including 3digit number and ones, tens and hundreds, column method, estimate using inverse, solve problems, write and calculate multiplication and division calculations including 2digit one digit using mental and formal methods, recall facts for 3,4 and 8 times tables. Count up and down in tenths, recognise fractions, non-unit and unit fractions, recognise tenths (dividing into 10 equal parts), identify each digit in numbers given to 3 decimal places, equivalent fractions, add and subtract fractions, recognise, draw and make 2 d and 3d shapes, identify right angles, half turn, \(\frac{3}{4}\)'s four turns= a whole, horizontal and vertical lines, perpendicular and parallel lines, measurement, perimeter, add and subtract money, tell the time including roman numerals, Interpret and present data using bar charts, pictograms and tables





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Year 4: count backwards through 0 to include negative numbers, count in multiples of 6,7,9,25 and 1000, find 1000 more or less than a given number, identify represent and estimate numbers usina different manipulatives, read roman numerals to 100(I-C), order and compare numbers beyond 1000, recognise the place value digit in four digit number, round to the nearest 10,100,1000, solve problems, solve addition and subtraction problems, +- with up to 4 digits using formal and written methods of columnar, use rounding where possible, 2 step problems, missing numbers, multiply 3digit by 1 digit formal method, estimate, recall all multiplication and division facts including product, odd/even/ factors/ divisibility rules, square numbers, count in fractions up to 10, using ½ and 2/4, recognise hundredths when dividing an object by 100 and dividing tenths by 10, compare numbers of the same decimals up to 2 dp, round decimals to nearest whole, equivalent fractions, add and subtract fractions, divide one or 2 digit numbers by 10 and 100, non-unit and unit fractions (divide), money problems involving fractions and decimals to 2dp, lines of symmetry in 2d shapes, compare and classify geometric shapes including quadrilaterals, triangles, identify acute, obtuse angles, compare and order by size, describe positions on a 2D grid, plot points and draw sides to complete a polygon, convert between different units of measure, perimeter and area of shapes, read and convert time, interpret data, graphs, bar charts and time graphs, calculate mean. Year 5: count forwards or backwards in steps of powers of 10 for any given number to 1 000 000, read, write, order and compare numbers to at least 1 000 000 and determine the value of teach digit, round any number up to 1 000 000 to the nearest 10,100,10,000 and 100 000, solve number problems, sole addition and subtraction problems, add and subtract whole numbers with more than 4 digits, using formal methods, identify common factors and common multiples, square, cube and prime numbers up to 19, x and divide by 10, 100 and 1000, equivalent fractions, convert between improper fractions and mixed numbers, compare and order fractions and less that 1, add and subtract fractions, multiply 2, 3 and 4-digit numbers by a 2-digit numbers, divide 4-digit number by a 1-digit number (with remainders), solve multiplication and division problems, multiply fractions by an integer, calculate fractions of an amount, use fractions as operators, find equivalent fractions in decimals, in tenths and hundredths, recognise thousandths in fractions and decimals, round decimals up to 1dp, calculate the perimeter of different shapes, calculate the area of different shapes, line graphs, interpret time tables, identify 3D shapes, angles in degrees, acute, obtuse, reflex, regular and irregular polygons, position and direction, add and subtract decimals, 2dp, multiply and divide by 10, 100, 1000, negative numbers, convert between different units of measure,

Topic	Small Steps	National Curriculum - Progression Document/Prioritisation	Vocabulary	Notes on provision and
				priority for teaching
				Sam J
				Sam O'H
				Lou W
Autumn 1	 Numbers to ten 	6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use	ones (1s), tens	
Place	million	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	(10s),	
Value	 compare and order 	6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal	hundreds	
	and number	fractions, and compose and decompose numbers up to 10 million using standard and non-standard	(100s),	
	 round any number 	partitioning.	thousands	
	 negative numbers 	6NPV–3 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	(1,000s), ten	
		6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read	thousands	
		scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.	(10,000s),	
		Use negative numbers in context, and calculate intervals across zero	hundred	
		Read, write, order and compare numbers up to 10 000 000 and determine the	thousands	
		value of each digit	(100,000s),	
		Read, write, order and compare numbers up to	millions	
		10 000 000 and determine the value of each digit		
		Read, write, order and compare numbers up to 10 000 000 and determine the	(1,000,000s),	
		value of each digit	ten	





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		round any whole number to a required degree of accuracy Solve number and practical problems that involve all of the above	million (10,000,000) place value partition/parti tioned/partitio
		To use knowledge of rounding to aid estimation. To be able to perform mental calculations working with large numbers. To be able to work systematically in response to a given problem, including multi-step problems. To use practical resources to deepen understanding of place value. To use mathematical reasoning to explain logical answers to questions To be able to work systematically in response to a given problem, including multi-step problems.	ning interval estimate compare/com parison/comp aring order/ordering less than (<), greater than (>), equal to (=) rounding/roun ded/round up/round down/rounds negative, positive odd, even accurate/accur ately, exactly,
Autumn 1/2 Four operation s Addition and	 Add and subtract integers multiply up to 4-digit number by 2-digit number short division 	6AS/MD-1 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). 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding. 6AS/MD-3 Solve problems involving ratio relationships. 6AS/MD-4 Solve problems with 2 unknowns.	approximate add, addend, sum, total subtract, subtrahend, minuend,



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subtractio	division using factors	Use their knowledge of the order of operations to carry out calculations	difference,
n,	long division	involving the four operations	reduce
multiplica	• common factors	Represent the calculation pictorially to prove the answer.	
tion and	• common multiples		method,
division	• primes to 100	Add and subtract negative integers	column,
	 squares and cubes 		columnar
	 order of operations 	Solve addition and subtraction multi-step problems in contexts, deciding which operations	multiply,
	 mental calculations 	and methods to use and why	multiplication,
	and estimation	Solve problems involving multiplication and division, including scaling by simple	multiplicand,
	reason from known	fractions and problems involving simple rates.	multiplier
	facts	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using	product,
		the formal written	multiple,
		method of long multiplication	commutative
		Use estimation to check answers to calculations and determine, in the context of	
		a problem, levels of accuracy	approximation
		D	divide,
		Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).	division, short
		and cubed (5).	division, long
		Solve problems involving multiplication and division including using knowledge of factors	division factor,
		and multiples, squares and cubes	, divisor,
			dividend,
		Use knowledge of order of operations to carry out calculations involving the four operation	quotient
Autumn 2	the first quadrant	Describe positions on the full coordinate grid (all four quadrants)	plotting,
Position	four quadrants	Draw and translate simple shapes on the coordinate plane, and reflect them in	coordinates,
and	translations	the axes.	quadrant,
Direction	reflections		point, axis, x-
			axis, y-axis,
			grid, x-
			coordinate, y-
			coordinate
			vertices,
			vertex, square,



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			side,
			rectangle,
			triangle,
			equilateral,
			oblong, shape,
			irregular,
			hexagon,
Autumn 2	 simplify fractions 	6F–1 Recognise when fractions can be simplified and use common factors to simplify fractions.	whole, part
Fractions	fractions on a	6F–2 Express fractions in a common denomination and use this to compare fractions that are similar in value	numerator,
	number line	6F–3 Compare fractions with different denominators, including fractions greater than 1, using	denominator,
	 compare and order 	reasoning, and choose between reasoning and common denomination as a comparison strategy	vinculum,
	(denominator)	Count up and down in hundredths.	common
	 compare and order 	Recognise, find and name a half as one of two equalparts of an object, shape or	denominator
	(numerator)	quantity.	equivalent
	add and subtract	Use common factors to simplify fractions; use common multiples to express	simplify,
	fractions	fractions in the same denomination.	simplest form
	add fractions	ridetions in the same denomination.	factor, highest
	 subtract fractions 	Associate a fraction with division and calculate decimal fraction equivalents (e.g.	common
	 mixed addition and 	0.375) for a simple fraction (e.g. 3/8).	factor, lowest
	subtraction		common
	 multiply fractions by 	Add and subtract fractions with different denominators and mixed numbers, using the	multiple
	integers	concept of equivalent fractions.	compare
	 multiply fractions by 	Associate a fraction withdivision and calculate decimal fraction equivalents	order,
	fractions	(e.g. 0.375) for a simple fraction (e.g. ³ / ₈).	ascending,
	 divide fractions by 		descending
	integers		less than,
	• four rules with		greater than
	fractions		proper
	• fraction of an amount		fraction,
	• fraction of an amount		improper
	- find the whole		fraction mixed





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		number				
		convert				
Complete A	utumn assessment at the start Baseline and again at the end.					
SMSC	Calculate whether an answer is wrong					
BV	Discuss their work					
	Explain their reasoning when solving problems					
Wider	Link to jobs- Baker, shop keeper, teacher, builder, gardener, engineer, architect, historian, soldier, zoo keeper					
World						
		•				

Spring term Year 6
Spring Term

Half term 17-21st Feb
Finish 11th April (Easter)
13 weeks including Number Day 7th
Feb; 1 enrichment week commencing
24th-28th March (complete Spring
Assessment)

The principal focus of mathematics teaching in upper key stage 2 is to ensure that pupils extend their understanding of the number system and place value to include larger integers. This should develop the connections that pupils make between multiplication and division with fractions, decimals, percentages and ratio. At this stage, pupils should develop their ability to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient written and mental methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of algebra as a means for solving a variety of problems. Teaching in geometry and measures should consolidate and extend knowledge developed in number. Teaching should also ensure that pupils classify shapes with increasingly complex geometric properties and that they learn the vocabulary they need to describe them. By the end of year 6, pupils should be fluent in written methods for all four operations, including long multiplication and division, and in working with fractions, decimals and percentages. Pupils should read, spell and pronounce mathematical vocabulary correctly.

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Topic	Small Steps	National Curriculum- Progression Document/Prioritisation	Vocabulary	Notes on provision and priority for teaching Sam J Sam O'H Lou W
Spring 1 Decimals	 three decimal places multiply by 10, 100 and 1,000 divide by 10, 100 and 1,000 multiply decimals by integers divide decimals by integers 	6NPV-1 Understand the relationship between powers of 10 from 1 hundredt 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). 6NPV-2 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 non-standard partitioning. 6NPV-3 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.	placeholder place value, tenths, hundredths, thousandths factor, multiple, product group, share numerator, denominator	



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	 division to solve problems decimals as fractions fractions to decimals 	6NPV-4 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. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy Identify the value of each digitin numbers given to three decimal places. Solve problems which requireanswers to be rounded to specified degrees of accuracy Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8).		
Spring 1	• fractions to	Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8).	per cent (%), percentage parts, whole decimal fraction,	
Percentag es	 percentages equivalent FDP order FDP percentage of an amount percentages - missing values 	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	equivalent fraction, equivalent fraction, tenth, hundredth, half, quarter less than () divide (÷), share, multiply (×) convert, compare, order, simplify	
Spring 1-2 Algebra	 find a rule - one step find a rule - two step forming expressions substitution 	use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes)	pattern, growing pattern sequence rule term algebra, algebraic expression formula, formulae substitute generalise	
	• formulae	find pairs of numbers that satisfy number sentences involving two unknowns	operation calculation, calculate	



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	 forming equations solve simple one-step equations solve two-step equations find pairs of values enumerate possibilities 	recognise when it is possible to use formulae for area and volume of shapes (copied from Measurement) generate and describe linear number sequences	equation inverse solution represent value
Spring 1 – Afternoon area perim and volume	 Shapes - same area area and perimeter area of triangle area of parallelogram volume - counting cubes volume of a cuboid 	recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles • calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3].	perimeter, distance, area, space, volume centimetres (cm), metres (m), square centimetres (cm2), square metres (m2), cubic centimetres (cm3), cubic metres (m3) rectangle, square, triangle, rectilinear shape, sides, length, width, parallelogram, cube, cuboid measure, combine, total, double, estimate
Spring 2 Measure ment convertin g units	 metric measures convert metric measures calculate with metric measures miles and kilometres imperial measures 	 time (hours, minutes, seconds) Sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening Recognise and know the value of different denominations of coins and notes Recognise and use language relating to dates, including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. 	units (of measure/ment), metric, imperial, length, mass, volume, capacity, distance measure, convert, equal, equivalent, approximate, smaller (unit), larger (unit), for every, ratio millimetres (mm), centimetres (cm), metres (m), kilometres (km), grams (g), kilograms (kg), millilitres (ml), litres (I) inches (in), feet (), ounces (oz), pounds (lbs), pints, miles, gallons, yards digits,



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		decimal conversion table,	
 using ratio language ratio and fractions introducing the ratio symbol calculating ratio using scale factors calculating scale factors • ratio and proportion problems 	 6AS/MD-3 Solve problems involving ratio relationships. solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison ● solve problems involving similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. 	ratio, ratio notation, 1 : 2 proportion part, whole, total group fraction unequal, equal simplest form, simplify for every x there are y similar enlarge, enlargement scale, map scale, scale factor	
Spring Assessment			
Explore maths in the real	world (Money)		
Follow rules for fact famili	es		
Link to jobs- Baker, shop keeper, teacher, builder, gardener, engineer, architect, historian, soldier, zoo keeper			
	 ratio and fractions introducing the ratio symbol calculating ratio using scale factors calculating scale factors ratio and proportion problems Spring Assessment Explore maths in the real value of the r	 ratio and fractions introducing the ratio symbol calculating ratio using scale factors calculating scale factors calculating scale factors ratio and fractions solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison solve problems involving similar shapes where the scale factors or ratio and proportion problems solve problems involving similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. Spring Assessment Explore maths in the real world (Money)	 using ratio language ratio and fractions introducing the ratio symbol calculating ratio using scale factors calculating scale factors ratio and proportion problems Spring Assessment Explore maths in the real world (Money) das/MD-3 Solve problems involving ratio relationships. osolve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts osolve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison • solve problems involving similar shapes where the scale factor is known or can be found osolve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Summer Term Year 6
Half term 26th May-9th June
Finish 18th July
11 weeks including; 2 enrichment
weeks
19th-23rd May Health and Wellbeing
week
14th-18th July
Complete- statistics/time/money in
enrichment week (Health)
Summer assessment to be completed
last enrichment week.

The principal focus of mathematics teaching in upper key stage 2 is to ensure that pupils extend their understanding of the number system and place value to include larger integers. This should develop the connections that pupils make between multiplication and division with fractions, decimals, percentages and ratio. At this stage, pupils should develop their ability to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient written and mental methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of algebra as a means for solving a variety of problems. Teaching in geometry and measures should consolidate and extend knowledge developed in number. Teaching should also ensure that pupils classify shapes with increasingly complex geometric properties and that they learn the vocabulary they need to describe them. By the end of year 6, pupils should be fluent in written methods for all four operations, including long multiplication and division, and in working with fractions, decimals and percentages. Pupils should read, spell and pronounce mathematical vocabulary correctly.





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Topic	Small Steps	National Curriculum- Progression Document/Prioritisation	Vocabulary	Notes on provision and priority for teaching
Summer 1 Shape	 measure with a protractor introduce angles calculate angles vertically opposite angles angles in a triangle angles in a triangle - special cases angles in a triangle - missing angles angles in special quadrilaterals 	including dimensions, angles, and area, and solve related problems. Recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing) Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius draw 2-D shapes using given dimensions and angles Careers education e.g. bricklaying recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)	degrees, measurement, length angle, obtuse, acute, reflex, right angle, interior protractor, baseline, crosshairs, scale vertex, edge, face parallel properties triangle, isosceles, equilateral, scalene regular, polygon, quadrilateral, parallelogram, kite, rhombus, trapezium diameter, radius, circumference, concentric, centre perimeter pyramid, tetrahedron, cylinder, prism, cuboid, cube	
	 angles in regular polygons draw shapes accurately draw nets of 3D shapes 	Model making and construction. Measuring areas e.g. carpet fitting. compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Understanding functionality of shapes e.g. round wheels. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles		
		Recognising in the community, time, body position, positional language, taking directions, map reading, compass bearings. use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes) find pairs of numbers that satisfy number sentences involving two unknowns		





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Summer 1 Statistics Afternoon if needed.	 read and interpret line graphs draw line graphs use lines graphs to solve problems circles read and interpret pie charts pie charts with percentages draw pie charts the mean 	Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	average, mean,set, share pie chart, segment, whole, section, degree, angle, right angle tally chart, bar chart fraction, percentage line graph, axis/axes, estimate, accurate, interpret, increase, above, below, zero (0), value, x-axis, y-axis, minus (–), between, plot, point, vertical, horizontal, construct, convert/conversion, straight, equivalent, predict, curve more, equal, even, size, total, share, great(er/est), calculate, divide, highest, compare, lowest, group, data, represent, balance, odd, different/difference, least, inverse, operation, advantages, disadvantages, largest, half, scale, quarter, frequency,	
			smallest, part, same, more, category,	
Cummor 2	Posan provious learning a	nd set shildren en a business task	results, exact	
Summer 2		nd set children on a business task		
	ummer assessment	MathsThroughStories.org - for specific topics		
SMSC	Use structured apparatus Develop mathematical reasoning			
BV	Decide on the best way to represent their conclusions in a bar chart			
Wider World	Link to jobs- Baker, shop keeper, teacher, builder, gardener, engineer, architect, historian, soldier, zoo keeper, geographer, scientist,			