Name:	MY MATHS TARGETS: * using cor	crete objects, pictorial representation
FS: Working towards ELG (emerging)	FS: ELG (expected)	FS: Above ELG(exceeding)
Mental calculation:         • Recognise some numerals of personal significance         • Recognise numerals 1-5         • Recite numbers in order to 10.         • Order numbers to at least 10         • Compare numbers within 10         • Find 1 more/ 1 less of any number to 10*         • Find numbers between 2 given numbers up to 10	Mental calculation (non-statutory- suggestions):         • Recite numbers to 20 forwards and backwards from any number         • Compare numbers to 20.         • Recognise numerals to 20         • Find 1 more/ 1 less of any number to 20         • Find numbers in between 2 given numbers up to 20         • Recall addition and subtraction facts for each number up to 5 and beyond*         • Recall doubles of numbers to 5 + 5*         • Recall halves of even numbers to 10*	<ul> <li>Mental calculation:         <ul> <li>Recall number bonds to 10</li> <li>Recall addition facts for each number up to 10.</li> <li>Recall subtraction facts for each number to 10</li> <li>Count in multiples of 2.</li> </ul> </li> </ul>
Number and Place Value         Count actions or objects which can't be moved         Count up to 5 objects, by saying one number name for each item*         Count out up to 10 objects from a larger group*         Begin to count objects beyond 10*         Selects the correct numeral to represent 1 to 5, then 1 to 10 objects*         Counts an irregular arrangement of up to ten objects*         Estimates how many objects they can see and checks by counting them*         Uses the language of 'more' and 'fewer' to compare two sets of objects*	Number and Place Value         Count reliably with numbers 1 to 20         Place numbers in order up to 20         Identify one more or one less than a number up to 20	Number and Place Value         Identify, represent and estimate numbers up to 20 and beyond, using different representations, including the number line         Begin to recognise odd and even numbers to 10.         Write numbers up to 10.         Read numbers in words up to 10.
Addition and Subtraction         □ Uses the language of 'more' and 'fewer' to compare two sets of objects*         □ Finds the total number of items in two groups by counting all of them*         □ Finds one more or one less from a group of up to five objects, then ten objects*         □ In practical activities and discussion, beginning to use the vocabulary involved in adding and subtracting*         □ Record using marks that they can explain	<ul> <li>Addition and Subtraction         <ul> <li>Using quantities and objects add two single digit numbers and count on to find the answer: U+U*</li> <li>Using quantities and objects subtract two single digit numbers and count on (difference) or back to find the answer: U-U*</li> <li>Solve linked practical problems *</li> </ul> </li> </ul>	Addition and Subtraction         □       Explain how they reached their answer in simple addition and subtraction problems.         □       Select what concrete objects/visual representations they will use independently to answer addition/subtraction problems.
Multiplication and Division Begins to identify own mathematical problems based on own interests and fascinations*	Multiplication and Division         Solve problems including doubling*         Solve problems including sharing*	Multiplication and Division Select what concrete objects/visual representations they will use independently to answer doubling, sharing problems.
Fractions ☐ Begin to use 'half' in everyday situations. E.g. half of a piece of fruit.*	Fractions □ Solve problems including halving*	Fractions ☐ Select what resources they will use independently to answer doubling, sharing problems.
Measurement         Orders two items by length or height.         Orders two items by weight or capacity.         Beginning to use everyday language related to money         Understands some talk about immediate past and future, e.g. 'before', 'later' or 'soon'.         Anticipates specific time-based events such as mealtimes or home time.         Orders and sequences familiar events	Measurement         Use everyday language to talk about: size, weight, capacity, distance, time and money.         Solve linked measure problems*	Measurement  Order up to 5 items by length or height. Order up to 3 items by weight.
	Geometry, Position and direction     Use everyday language to talk about position.     Recognise, create and describe patterns.     Explore characteristics of everyday objects and shapes	Geometry, Position and direction ☐ Match and sort 2-D and 3D shapes in activities ☐ Use 2D and 3D shapes to make models, pictures and more complicated patterns
<ul> <li>beginning to use interference i</li></ul>	<ul> <li>Use mathematical language to describe shapes.</li> </ul>	

Name:	MY MATHS TARGETS:	* using concrete objects, pictorial representation KPI Statements. Reasoning statements
Year 1: POS (Emerging)	Year 1: (Expected)	Year 1: Above POS (Exceeding)
Mental calculation:           •         Recite numbers to 100 forwards and backwards from 0 or 1           •         Recite numbers to 10 as first, second, thirdetc           •         Recite numbers to 10 as first, second, thirdetc           •         Read and write numbers to at least 20           •         write numbers to 10           •         Order numbers to at least 20           •         Write numbers to at least 20           •         Order numbers within 20           •         Compare numbers within 50           •         Find 1 more/ 1 less of any number to 1- 20           •         Find numbers between 2 given numbers           •         Count on or back in ones from a given number           within at least 0- 20         Recite multiples of 10 to 100           •         Find 1 more/ 1 less of any number to 1- 99           •         Recall addition and subtraction facts for each number up to 10.           •         Recall doubles of numbers to 5+5           •         Recall halves of even numbers to 10.           •         Count in multiples of 2. 5 and 10	Mental calculation:         Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.         Count in multiples of twos, fives and tens.         Given a number, identify one more and one less.         Find numbers between 2 given numbers         Recall addition and subtraction facts for each number up to 20.         Recall doubles of numbers to 10 + 10         Recall doubles of even numbers to 20.         Add a single digit number to any number up to 20.         Take away a single digit number from any number up to 20         Add three one digit numbers         Recognise odd and even numbers to 10.	Mental calculation:         Recall division facts for the 2x,5x and 10x tables         Find 1 more/ 1 less or 10 more / 10 less of any number to 1-100         find doubles +1         Calculate doubles of numbers to 50         Calculate halves of numbers to 50         Add two two digit numbers         Add pairs of multiples of ten to 100         Subtract pairs of multiples of ten to 100         Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward         Recognise odd and even numbers to 20.
Number and Place Value         Read numbers up to 20         Write numbers up to 20.         Put numbers from 1 to 20 in order         Recognise 0 as 'none' and 'zero' in stories and rhymes and when counting and ordering.         Count up to 20 objects         Find one more or less than a number up to 20         Use words like more, less, greater or equal with numbers         When I count objects, I can write the number down correctly         Begin to recognise the place value of each digit in a two-digit number (tens, ones)	Number and Place Value         Count, read and write numbers to 100 in numerals;         Read and write numbers 1 to 20 in words         Identify one more or one less than a number up to 100         Position numbers to 100 on a number line         Use following words to describe numbers: equal to, more than, fewer (less than), most, least         Represent numbers to 100 using objects (numicon, unifix, base ten,etc) and pictures	<ul> <li>Number and Place Value</li> <li>Identify, represent and estimate numbers up to 100 and beyond, using different representations, including the number line</li> <li>Begin to recognise the place value of each digit up to 200 (hundreds, tens and units).</li> <li>Partition numbers in different ways 23 =20 +3 or 2 tens plus 3 ones</li> <li>Solve problems and practical problem using place value and number facts</li> </ul>
Addition and Subtraction         Add by putting two groups of objects together         Understand subtraction as counting on/back         using: objects or a bead string or number line         with numbers up to 10         Count on or back from any number up to 20.         Know some words for adding and subtracting         Solve problems using adding and subtracting numbers up to 10*         Multiplication and Division         Count a set of concrete objects in 2s, 5s and 10s         Continue number sequences linked to the 2x,	Addition and Subtraction         Read, write and understand addition statements:         u+U, TU+U, TU+TU up to 20+20.         Represent and use number bonds and related         subtraction facts within 20.         Use and understand +, - and = signs.         Solve one-step + and – problems *         Solve missing number problems*         Multiplication and Division         Solve one-step x problems *         Solve one step x problems *	Addition and Subtraction         Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.         Understand subtraction as take away and as difference and solve linked problems.         Use inverse relationship of + and - to check answers to problems.         Multiplication and Division         Estimate answer to calculations and problems.         Practical work to show link between 2 lots of 4 and 4 lots of 2 (commutative).
<ul> <li>5x and 10x tables.</li> <li>Fractions</li> <li>Find and name a half of a shape by folding equally.</li> <li>Find half of a set of concrete objects by splitting into two equal sets.</li> </ul>	Fractions         □       Recognise, find and name a half as one of two         equal parts of an object, shape or quantity         □       Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	Fractions         □       Count on or back in in ½ or ¼ to 10         □       Recognise the equivalence of <sup>2/4</sup> and <sup>1/2</sup> *
Measurement  Tell the time to the hour  Compare and describe measurements using the following language: o lengths and heights [ long/short, longer/shorter, tall/short, double/half] o mass/weight [heavy/light, heavier than, lighter than] o capacity and volume [full/empty, more than, less than, half, half full, quarter] o time [quicker, slower, earlier, later].  Geometry. Position and Direction Match and sort 2-D and 3D shapes in activities and use them to make models, pictures and patterns Use everyday words to describe position (such as 'on top', in front of, 'behind', 'in the middle' and 'in between')	Measurement         Compare, measure, record, describe and solve practical problems for: lengths and heights, mass or weight, capacity/volume and time.         Recognise and know the value of different denominations of coins and notes         Sequence events in chronological order using simple time language         Recognise and use language relating to dates (days, 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         Geometry: Shapes, Position and direction recognise and name common 2D shapes (rectangles inc. squares, circles and triangles) and 3D shapes (cuboids including cubes, pyramids and spheres)         Describe position, direction and movement including whole, half, quarter and three-quarter turns	Measurement         Discuss and describe temperature in real-life and scientific contexts (e.g. hotter, colder)         Geometry: Shapes, Position and direction         Sort 3-D and 2-D shapes in terms of faces, edges and sides and compare them (using terms 'larger', 'smaller', 'curved' and 'straight')         Begin to recognise angles as a property of shape or a description of a turn.

Name:	MY MATHS TARGETS: * using concrete objects, pictorial repres	
Year 2: working towards POS (Emerging)	Year 2: POS (Expected)	Year 2: above POS (Exceeding)
Mental calculation:           •         Recall multiplication facts for the 2x,5x and 10x tables           •         find doubles +1           •         Calculate doubles of numbers to 50           •         Calculate halves of numbers to 50           •         Add two two digit numbers           •         Add pairs of multiples of ten to 100           •         Subtract pairs of multiples of ten to 100	Mental calculation:         Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward         Recall and use addition and subtraction facts to 20 fluently, derive and use related facts up to 100         Add three one-digit numbers         Add and subtract: a two-digit number and ones, a two-digit number and tens, two two-digit numbers	Mental calculation: I can count to at least 100 and group objects, to make counting easier Recall and use number bonds for multiples of 5 to 60 Round numbers to the nearest 10. Estimate answers to calculations.
Number and Place Value         Find 1 more or 1 less of a given number up to 100.         Find 2 digit numbers on a number line (marked, unmarked, beadedetc).         read and write numbers to at least 50 in numerals and in words	Number and Place Value         Recognise the place value of each digit in a two-digit number (tens, ones)         identify, represent and estimate numbers using different representations, including the number line         compare and order numbers from 0 up to 100; use <, > and = signs         read and write numbers to at least 100 in numerals and in words         use place value and number facts to solve problems	Number and Place Value         I can count on or back in ones or tens from any number up to 100 and even further         I can read, write and partition 3-digit numbers to 1000.         Compare and order numbers with one decimal place.         Begin to understand the connection between the 10 x table and place value (x and ÷ 1 and 2 digit numbers by 10).         Recognise 3 digit odd and even numbers.
<ul> <li>Addition and Subtraction</li> <li>Add numbers using concrete objects, pictorial representations, and mentally, including: TU + U, TU number and tens, TU + TU, U + U + U.</li> <li>Subtract numbers using concrete objects, pictorial representations, and mentally, including: TU - U, TU number - tens, TU - TU, U - U - U.</li> </ul>	Addition and Subtraction Solve problems with addition and subtraction: incl. those involving numbers, quantities & measures, applying their increasing knowledge of mental and written methods. * Show that + of two numbers can be done in any order (commutative) and - cannot Recognise and use the inverse relationship between +/- and use this to check calcs & solve missing no. problems.	Addition and Subtraction & Algebra         □       Recognise equivalent number statements, e.g. that 10 +2 =2+10         □       Represent and use number bonds and related subtraction facts within 100         □       Use simple function machines i.e. an input and/ or an output within their number knowledge so they can determine the rule e.g. (+10) Can you put into words what is happening here? Predict what would happen if we input these numbers.
Multiplication and Division         □       Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs         □       Understand multiplication as repeated addition         □       Understand multiplication as: sharing, grouping and skip counting.	Multiplication and Division         Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers         Show that multiplication of two numbers can be done in any order (commutative) and division cannot.         Solve problems involving multiplication and division using * and arrays, repeated addition, mental methods, and multiplication and division facts. including problems in contexts.	Multiplication and Division         □       Recognise and use the inverse relationship between multiplication and division and use this to check calculations and missing number problems.         □       Know that division calculations can have a remainder.         □       solve problems involving multiplication and division , including those with remainders*
Fractions ☐ Begin to recognise half and quarter in practical contexts.	Fractions ☐ Recognise, find, name and write fractions 1/3, ½, 2/4, and 3/4 of a length. shape. set of objects or quantity. ☐ Write simple fractions e.g. <sup>1</sup> / <sub>2</sub> of 6 = 3 and recognise the equivalence of <sup>2</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub> .	<ul> <li>Fractions</li> <li>Compare and order numbers with two decimal places in the context of money or measures.</li> <li>□ Round decimals to whole numbers, e.g. to the nearest pound.</li> </ul>
Measurement         Know the number of minutes in an hour and the number of hours in a day         Tell the time to quarter past/to the hour and draw the hands on a clock face to show these times         Recognise and use symbols for pounds (£) and pence (p)         Find different combinations of coins that equal the same amounts of money	Measurement         Choose and use standard units to estimate and measure length/height(m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit.         Combine amounts to make a particular value         Solve simple problems involving addition and subtraction of money of the the same unit, including giving change*         Compare and sequence intervals of time         Tell and write the time to five minutes,.         Compare and sequence intervals of time	Measurement Solve one and two step measure problems.* Compare and order measures and record using <,> and =
Geometry: Shapes, Position and Direction  Identify 2D shapes on the surface of 2D shapes Describe the properties of 3D shapes (edges, vertices, faces) Order and arrange combinations of mathematical objects in patterns. Describe movement in a straight line.	Geometry: Shapes, Position and Direction         □       Describe the properties of 2D shapes (sides and symmetry)         □       Compare and sort common 2D and 3D shapes and everyday objects.         □       Describe position, direction and movement as: straight lines, rotation and in terms of right angles for 1/4, 1/2 and 3/4 turns (clockwise/anti).	Geometry: Shapes, Position and Direction Know right angles as square corners and identify them in the environment.
Statistics ☐ ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity	<ul> <li>Statistics</li> <li>□ interpret and construct simple pictograms, tally charts, block diagrams and simple tables</li> <li>□ ask and answer questions about totalling and comparing categorical data</li> </ul>	Statistics         □ Sort and compare numbers, shapes and objects to a given criteria and their own criteria on to sorting diagrams.         □ solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?']

Name:	MY MATHS TARGETS: * using concrete objects, pictorial representation KPI Statements Reasoning statement			
Year 3: working towards POS (Emerging)	Year 3: POS (Expected)	Year 3: above POS (Exceeding)		
Mental calculation:           Count on or back in tens from any number up to 1000           Round 2/3 digit numbers to the nearest ten.           Recall and use addition and subtraction facts for 100 (multiples of 5 and 10)           Derive and use addition and subtraction facts for 100	Mental calculation:         Count from 0 in multiples of 4, 8, 50 and 100         find 10 or 100 more or less than a given number.         Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables         Count up and down in tenths         Add and subtract numbers mentally, including:         -a three-digit number and ones         -a three-digit number and hundreds	Mental calculation:           O Derive and use addition and subtraction facts for multiples of 100 up to 1000, then 10 000           Derive and use doubles of all numbers to 100 and the corresponding halves           Derive and use doubles of all multiples of 50 to 500           Count on and back in ½, ¼ and 1/3		
Number and Place Value           Read all 3 digit numbers and write most of these in numerals.           Read and write the Roman numerals from I to XII           Identify the value of each digit to one decimal place           Investigate a general statement about familiar numbers by finding example to satisfy it i.e. odd and even	Number and Place Value           Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)           Compare and order numbers up to 1000           Identify, represent and estimate numbers using different representations           Read and write numbers up to 1000 in numerals and in words           Solve number problems and practical problems involving these ideas.	Number and Place Value         Recognise negative numbers and can position them on a number line.         Read and write numbers to 10,000         Partition numbers in different ways 145         =100+40 +5 and 130+15         Find the effect of multiplying or ÷ a one or two digit number by 10 or 100         Round numbers to at least 1000 to the nearest 10 or 100		
Addition and Subtraction Add and subtract 2/3 digit numbers using: number lines (counting on/ back), partitioning method and/ or expanded methods. Describe and extend growing patterns practically –add 2 green tiles each time	Addition and Subtraction         Add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction         Estimate the answer to a calculation and use inverse operations to check answers         Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	Addition and Subtraction         □       Solve 2/3 digit addition and subtraction problems involving missing numbers         □       Describe and extend simple number sequences, starting from any one, two or three digit number. Which part repeats?         Predict what comes next?		
Multiplication and Division     Understand division is the inverse of     multiplication and use to check calculations.     Continue to show that multiplication of two     numbers can be done in any order     (commutative) and division cannot.     Solve TU X U problems using mental     partitioning methods and the grid method.*     Solve TU divided by U problems using skip     counting and chunking on a number line.*	Multiplication and Division           Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.           Solve problems, including missing number problems, involving multiplication and division of whole numbers and correspondence problems in which n objects are connected to m objects.	Multiplication and Division         □       Solve x/ ÷ problems using formal written methods- (from year 4)         □       Use simple function machines i.e. an input and/or an output within their number knowledge so they can determine the rule e.g. (x5) Can you put into words what is happening here? Predict what would happen if we input these numbers.		
Fractions         □       Recognise and use fractions as numbers: unit fractions (one part of a whole) and non- unit fractions (several parts of a whole) with small denominators         □       Recognise and show, using diagrams, equivalent fractions with small denominators	Fractions         Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10         Recognise. find and write fractions of a discrete set of objects 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, and fractions with the same denominators         Solve problems that involve all of the above	Fractions         Compare and order numbers with two decimal places in the context of money or measures         Round decimal fractions up to 2 places to the nearest whole number/unit of measure.         I can compare and order numbers up to 100,000         Solve two step fraction problems.		
Measurement         Know the number of seconds in a minute and the number of days in each month, year and leap year         Compare durations of events, for example to calculate the time taken by particular events or tasks         Continue to estimate and measure temperature to the nearest degree using thermometers	Measurement         Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)         Add and subtract amounts of money to give change, using both £ and p         Tell and write the time from an analogue clock, 12 hour and 24 hour clock         Tell and write the time on an analogue clock that uses Roman numerals from I to XII.         Estimate and read time to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock.	Measurement           Measure the perimeter of simple 2-D shapes (from year 4)           Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24- hour clocks (from year 4 and 5)           Use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (from year 4).		
Geometry: Shapes, Position and Direction         Draw 2-D shapes and make 3-D shapes using modelling materials         Recognise and name common 2-D and 3-D shapes and describe their properties         Statistics         Interpret and present data using bar charts, pictograms and tables	Geometry: Shapes, Position and Direction         recognise 3-D shapes in different orientations and describe them         Recognise that angles are a property of shape or a description of a turn         Identify right angles and link to ¼, ½, 3/4 turns; identify whether angles are greater than or less than a right angle         Identify horizontal and vertical lines         Statistics         Statistics         Solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.	Geometry: Shapes, Position and Direction         Identify pairs of perpendicular and parallel lines (from year 4 and 5)         Describe positions on a grid labelled with letters and numbers         Plot specified points and complete shapes or pictures         Statistics         Sort and compare numbers, shapes and objects on to sorting diagrams and interpret the results		
	Interpret and present data using bar charts, pictograms and tables.			

	Name:	MY MATHS TARGETS:	* using concrete objects, pictorial representation KPI Statements, Reasoning statements
	Year 4: working towards POS	Year 4: POS (Expected)	Year 4: above POS (Exceeding)
	Mental calculation:	Mental calculation:	Mental calculation:
0	Count on or back in tens and hundreds from	O Count in multiples of 6, 7, 9, 25 and 1000	O Derive and use addition and subtraction facts for
0	Derive and use doubles of all numbers to 100	O Recall multiplication and division facts for multiplication	multiples of 100 up to 1000, then 10 000
-	(extend to 200) and the corresponding halves	tables up to 12 × 12	<ul> <li>Count on or back in tens and hundreds from any number up to 10,000</li> </ul>
0	Derive and use doubles of all multiples of 50	<ul> <li>Find 1000 more or less than a given number</li> </ul>	Double numbers with up to two desired places
	to 1000 Add TU + TU	<ul> <li><u>Count backwards through zero to include negative</u></li> </ul>	<ul> <li>Double numbers with up to two decimal places.</li> </ul>
0	Subtract TU from TU	numbers	Multiply or divide, a 1 or 2 digit number by 10 or
0	Recall 6x, 7x, 9x table facts in random order.	<ul> <li><u>Round any number to the nearest 10, 100 or 1000</u></li> </ul>	
0	Derive division facts for the 6x, 7x, 9x tables.	<ul> <li>Round decimals with one decimal place to the nearest whole number</li> </ul>	<ul> <li>Use partitioning to double or halve numbers</li> </ul>
		<u>Whole number.</u>	including decimals to one and two decimal places
		hundredths arise when dividing an object by one hundred	
		and dividing tenths by ten.	
_	Number and Place Value	Number and Place Value	Number and Place Value
	Investigate a general statement about	Recognise the place value of each digit in a four-digit	Recognise negative numbers and can position them     on a number line
	satisfy it i.e. odd and even	number (thousands, hundreds, tens, ones) extend to 5	Understand place value of numbers up to 100.000
		Read Roman numerals to 100 (I to C) and know that over	□ Partition numbers in different ways 145 =100+40
		time, the numeral system changed to include the concept	+5 and 130+15
		of zero and place value	
		Order and compare numbers beyond 1000     Identify, represent and estimate numbers using different	
		representations	
		□ Solve number and practical problems that involve all	
		of the above and with increasingly large positive	
	Addition and Subtraction	Addition and Subtraction	Addition and Subtraction
	Solve 4 digit addition and subtraction	Add and subtract numbers with up to 4 digits using formal	<ul> <li>Describe and extend simple number sequences,</li> </ul>
	problems involving missing numbers	written methods of column addition and subtraction where	starting from any 2,3 or 4 digit number. Which
	Use and apply number bonds and related	appropriate.	part repeats? Predict what comes next?
	those with fractions and decimals	Estimate the answer to a calculation and use inverse operations to check answers	with an input and /or output and a rule that combines
		Solve addition and subtraction two-step problems in	two operations e.g.( x 2+3)
		contexts, deciding which operations and methods to	
		use and why	
	Multiplication and Division Solve HTLLX II problems using mental	Multiplication and Division	Multiplication and Division
	methods and the grid method, progressing	Use place value, known and derived facts to multiply and divide mentally, including; multiplying by 0 and 1; dividing	and/or an output within their number
	to formal written method, where	by 1; multiplying together three numbers	knowledge so they can determine the rule e.g.
	appropriate to use them.	Multiply two-digit and three-digit numbers by a one-digit	(x5) Can you put into words what is happening here? Predict what would happen if we input these
	chunking on a number line, progressing to formal	number using formal written layout	numbers.
	written method, where it is appropriate to use	one digit and harder correspondence problems such	□ Investigate how the Distributive Law can be
	tnem. Recognise and use factor pairs and commutativity in	as n objects are connected to m objects	used to multiply larger numbers: e.g. 6 X 18 is the same as $6x (10+8)$ or $6x (9+9)$
	mental calculations.		
	Fractions	Fractions	Fractions
	families of common equivalent fractions	Solve problems involving increasingly harder fractions including non-unit fractions where the	fractions and decimals to two decimal places
	Add and subtract fractions with the same	answer is whole.	Compare and order unit fractions, and fractions
	denominator.	Recognise and show, using diagrams, families of common	with the same denominators , <i>including on a</i>
	Divide a one- or two-digit number by 10 and	equivalent fractions.	number line
	answer as units 1/10s and 1/100s	Recognise and write decimal equivalents of any number of tenths or hundredths	
	Round decimals with one decimal place to	<ul> <li>Recognise and write decimal equivalents to <sup>1</sup>/<sub>4</sub>, <sup>1</sup>/<sub>2</sub>, <sup>3</sup>/<sub>4</sub></li> </ul>	
	the nearest whole number	Compare numbers with the same number of decimal places up to two decimal places	
	Measurement	Measurement	Measurement
	Convert between different units of measure	Calculate the perimeter of a rectilinear figure (including	Order temperatures including those below 0
_	(e.g. kilometre to metre; hour to minute)	squares) in cm/m. Find the area of rectilinear shapes by	degrees centigrade
	Esumate, compare and calculate different	counting squares	from known multiplication tables
	pence	digital 12 and 24-hour clocks	$\square$ Begin to use square centimetros (cm <sup>2</sup> )
	Solve measure problems in a practical	Solve simple measure and money problems involving	Solve complex measure problems.
	context	fractions and decimals to two decimal places &	· · · · · · · · · · · · · · · · · · ·
6.	matry: Shanes Desition and Direction	problems involving converting units of time.	Geometry: Shanes Desition and Direction
	Draw 2-D shapes and make 3-D shapes using	Compare, sort and classify geometric shapes.	Continue to identify horizontal and vertical lines and
_	modelling materials	Identify acute and obtuse angles and compare angles up	pairs of perpendicular and parallel lines and begin
	in different orientations	to two right angles. Complete a simple symmetric figure	to identify intersecting lines.
	Describe movements between positions as	with respect to a specific line of symmetry Describe positions on a 2-D grid as coordinates in the first	
	translations of a given unit to the left/right and up/down	quadrant. <u>plot points and connect to</u> complete a polygon.	
_	Statistics	<u>Statistics</u>	Statistics
	Solve comparison, sum and difference problems	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts & time graphs	Decide when to use the mode, median and range
	pictograms, and other graphs.	Solve comparison, sum and difference problems using information	to describe a set of data.
		presented in bar charts, pictograms, tables and other graphs.	

MY MATHS TARGETS		MY MATHS TARGETS		
KPI Statements Reasoning statements Year 5: working towards POS (Emerging)		KPI Statements Reasoning statements Year 5: POS (Expected)		
	Mental calculation:		Mental calculation:	
0	Derive and use addition and subtraction facts for multiples of 100 up to 10 000	0	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	
0	Read, write, order and compare numbers to 100 000	0	000 000	
0	Round any number up to 1 00 000 to the nearest 10, 100, 1000, 10 000	0	Interpret negative numbers in context, count forwards and backwards with positive and	
0	and common factors of two numbers	0	Add and subtract numbers mentally with increasingly large numbers (example,	
0	Multiply and divide numbers mentally drawing upon known facts	0	$\frac{12462 - 2300 = 10\ 162)}{1000}$ Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	
	Number and Place Value		Number and Place Value	
	Count backwards through zero to include negative numbers.		Recognise the place value of each aight in a six and seven digh humber. Read Roman numerals to 1000 (M) and recognise years in Roman numerals	
	Read Roman numerals to 100 (I to C) and know that over time, the numeral		Write decimal numbers as fractions. Read, write, order and compare numbers with up to three decimal places.	
	Solve number and practical problems that involve all of the above and with		Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
	increasingly large positive numbers.		Solve number problems and practical problems that involve year 5 place value knowledge.	
	Addition and Subtraction, Multiplication and Division		Addition and Subtraction, Multiplication and Division	
	Add and subtract decimals with up to two decimal places.		a problem, levels of accuracy	
	Add and subtract numbers with up to 4 digits using the formal written		Solve addition and subtraction multi-step problems in contexts, deciding which	
	Estimate and use inverse operations to check answers to a calculation.		Add and subtract whole numbers with more than 4 digits.	
	Solve addition and subtraction two-step problems in contexts, deciding which		Establish whether a number up to 100 is prime and recall prime numbers up to 19.	
	operations and methods to use and why. Multiply two-digit and three-digit numbers by a one-digit number using formal		know and use the vocabulary of: prime numbers, prime factors and composite (non- prime) numbers & common factors.	
	written layout.		Recognise and use square numbers & cube numbers, and the notation for both.	
	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit integer scaling		Multiply numbers up to 4 digits by a one-digit number using a formal written method (short x)	
	problems and harder correspondence problems such as n objects are		Solve problems involving multiplication and division including: factors and	
	connected to m objects.		multiples, squares and cubes, scaling by simple fractions and problems	
			Solve complex problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	
	Fractions, ratio and proportion		Fractions, ratio and proportion	
	Count up and down in hundredths; recognise that hundredths arise when		Add and subtract fractions with the same denominator and multiples of the same	
	Solve problems involving increasingly harder fractions to calculate quantities,		Recognise the per cent symbol (%)relates to "number of parts per hundred", and write	
	and fractions to divide quantities, including non-unit fractions where the		percentages as a fraction and as a decimal fraction.	
	Add and subtract fractions with the same denominator.		number.	
	Recognise and write decimal equivalents of any number of tenths or hundredths		Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.	
	Recognise and write decimal equivalents to 1/4, 1/2, 3/4.		Read and write decimal numbers as fractions	
	Compare numbers with the same number of decimal places up to two		Read, write, order and compare numbers with up to three decimal places.	
			other and write mathematical statements > 1 as a mixed number	
			Multiply proper fractions and mixed numbers by whole numbers, supported by	
			Solve problems which require knowing percentage and decimal equivalents of	
	Maaaaaaa		1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25	
	Measurement Measure and calculate the perimeter of a rectilinear figure (including		<u>Measurement</u> Convert between different units of metric measure.	
	squares) in centimetres and metres.		Solve problems involving converting between units of time.	
	Read, write and convert time between analogue and digital 12- and 24-hour clocks		such as inches, pounds and pints	
	Solve problems involving converting from hours to minutes; minutes to		Measure and calculate the perimeter of composite rectilinear shapes in centimetres	
	seconds; years to months; weeks to days Solve problems that involve time intervals.		Calculate and compare the area of squares and rectangles using standard units, and	
_			estimate the area of irregular shapes	
			Use all four operations to solve problems involving measure (e.g. length, mass,	
0	notry Change Desition and Direction	6	volume, money) using decimal notation including scaling.	
	Compare and classify geometric shapes, including quadrilaterals and		Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	
	triangles, based on their properties and sizes.		Identity 3-D shapes from 2-D representations Distinguish between regular and irregular polygons based on reasoning about	
	Identify lines of symmetry in 2-D shapes presented in different		equal sides and angles.	
	orientations. Complete a simple symmetric figure with respect to a specific line of symmetry.		Draw given angles, and measure them in degrees <sup>0</sup> identify: angles at a point and one whole turn ,angles at a point on a straight line and ½ a turn,	
	Describe positions on a 2-D grid as coordinates in the first quadrant		other multiples of 90 <sup>°</sup>	
	Describe movements between positions as translations of a given unit to		angles.	
	the left/right and up/down. Plot specified points and draw sides to complete a given polycon		Identity, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	
	Statistics and Algebra		Statistics and Algebra	
	Complete, read and interpret information in tables, including timetables		Solve comparison, sum and difference problems using data in a line graph.	

	MY MATHS TARGETS KPI Statements Reasoning statements		MY MATHS TARGETS KPI Statements Reasoning statements
	Year 5: POS (Expected)		Year 5: Above POS (Exceeding)
0	Mental calculation: Read, write, order and compare numbers to at least 1 000 000 and	0	Mental calculation: Recall and use addition and subtraction facts for 1 and 10 (with decimal numbers to
0	determine the value of each digit Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	0	one place, extend to two places). Add and subtract numbers mentally combinations of two, three and four digits. Use partitioning to double or halve larger numbers including decimals to two decimal
0	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.	0	places
0	Add and subtract numbers mentally with increasingly large numbers (example, 12462–2300 = 10 162)		
0	Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10		
000	and 100 000		Number and Direc Value
	Recognise the place value of each digit in a six and seven digit number. Read Roman numerals to 1000 (M) and recognise years in Roman numerals Write decimal numbers as fractions. Read, write, order and compare numbers with up to three decimal places. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents		Recognise negative numbers and can position them on a number line. Read and write numbers to 10,000 Partition numbers in different ways 145 =100+40 +5 and 130+15 Find the effect of multiplying or ÷ a one or two digit number by 10 or 100 Round numbers to 10 000 to the nearest 10 or 100.
	Round decimals with two decimal places to the nearest whole number and to one decimal place.		Show very good understanding of place value and is able to apply this to working with larger numbers/decimals and in solving problems.
	Solve number problems and practical problems that involve year 5 place value knowledge.		
	Addition and Subtraction, Multiplication and Division Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Add and subtract whole numbers with more than 4 digits. Establish whether a number up to 100 is prime and recall prime numbers up to 19. Know and use the vocabulary of: prime numbers, prime factors and composite (non- prime) numbers & common factors.		Solve complex addition and subtraction and Division Solve complex addition and subtraction problems involving missing numbers. Add and subtract decimals up to three decimal places. Describe and extend number sequences including those with x and ÷ and those where the step is a decimal or fraction. Create a number pattern by multiplying or dividing by a constant to get the next term. Show a clear understanding of the different structures of multiplication and division and the related vocabulary and am able to apply this to solving increasingly complex probleme.
	Multiply numbers up to 4 digits by a one-digit number using a formal written method (short x)		Apply knowledge of the inverse operation and the links between division and multiplication to solving problems.
	multiples, squares and cubes, scaling by simple fractions and problems involving simple rates.		Solve problems of increasingly complexity using a range of strategies and am able to communicate my reasoning.
	division and a combination of these, including understanding the meaning of the equals sign.		
_	Fractions, ratio and proportion	_	Fractions, ratio and proportion
	Add and subtract fractions with the same denominator and multiples of the same number. Recognize the per cent symbol (%) relates to "number of parts per hundred" and write		Show a very good understanding of the connections between fractions decimals and percentages and is able to use their knowledge to translate between the three.
	percentages as a fraction and as a decimal fraction.		Apply their knowledge of fractions, decimals and percentages to problems of increasing complexity and to explain their reasoning and thinking.
	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths		Apply links with division to solving increasingly complex problems.
	Read and write decimal numbers as fractions Read, write, order and compare numbers with up to three decimal places.		
	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number Multiply proper fractions and mixed numbers by whole numbers supported by materials		
	Solve problems which require knowing percentage and decimal equivalents of $\frac{y}{x}$ .		
	<u>74, 1/5, 2/5, 4/5</u> and those with a denominator of a multiple of 10 or 25 Measurement		Measurement
	Convert between different units of metric measure. Solve problems involving converting between units of time.		Convert fluently and efficiently between different units of measures and be able to reason about the multiplicative relationship between related measures.
	Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints		Use their understanding of the concepts related to measures to solve increasingly complex problems.
	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres		Communicate reasoning and talk about mathematics using sophisticated mathematical
	estimate the area of irregular shapes		unguugu.
	Esumate volume and capacity Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.		
Geo	metry: Shapes, Position and Direction	Geo	metry: Shapes, Position and Direction
	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Identify 3-D shapes from 2-D representations		I can use straight edge and compasses to do standard constructions. Sort and classify shapes using a wide range of criterion using increasingly
	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.		sophisticated mathematically appropriate vocabulary. Creatively apply knowledge of shapes to solving problems with increasing complexity and be able to justify reasoning and communicate their thinking
	Draw given angles, and measure them in degrees <sup>0</sup> identify: angles at a point and one whole turn ,angles at a point on a straight line and ½		Make links and connections with other areas of the curriculum and be able to generalise their understanding.
	a turn, other multiples of 90 <sup>°</sup> Use the properties of rectangles to deduce related facts and find missing lengths and angles		Solve increasingly complex problems involving position and movement. Apply knowledge and understanding of position and movement to other curriculum areas such as geography and science.
	<ul> <li>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</li> </ul>		
	<u>Statistics and Algebra</u> Solve comparison, sum and difference problems using data in a line graph.		<u>Statistics and Algebra</u> Use knowledge of data handling to pose hypothesis and answer questions through the analysis and interpretation of data. Draw conclusions and communicate them. <u>Complete, read and interpret information in tables, including timetables.</u>

MY MATHS TARGETS KPI Statements_Reasoning statements		MY MATHS TARGETS KPI Statements Reasoning statements		
	Year 6: working towards POS (Emerging)		Year 6: POS (Expected)	
0	Mental calculation: Read, write, order and compare numbers to at least 1 000 000 and determine the value	0	Mental calculation: Recall and use addition and subtraction facts for 1 and 10 with decimal numbers to	
0	of each digit. Use partitioning to double or halve larger numbers, including decimals to two decimal	0	two places. Perform mental calculations, including with mixed operations and large numbers. Round any whole number to a required degree of accuracy.	
0	praces. Recall and use addition and subtraction facts for 1 and 10 (with decimal numbers to one place).	Ĩ.	Geometry- position and direction	
0 0	Add and subtract numbers mentally combinations of two, three and four digits. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.	0	Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	
	Number and Place Value Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and		<u>Number and Place Value</u> Read, write, order and compare numbers up to 10 000 000 and determine the value of	
	Solve number problems and practical problems that involve all of the above. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals		Use negative numbers in context, and calculate intervals across zero. Solve number and practical problems that involve all of the above	
	Addition and Subtraction. Multiplication and Division		Addition and Subtraction. Multiplication and Division	
	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.		Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	
	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.		Identify common factors, common multiples and prime numbers. Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal	
	Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers up to 100.		written method of long multiplication Divide numbers up to 4 digits by a two- digit number and interpret remainders as whole number remainders fractions or by rounding as appropriate for the	
	written method, including long multiplication for two-digit numbers. Divide numbers up to 4 digits by a one-digit number using the formal written		<u>context</u> . Use their knowledge of the order of operations to carry out calculations involving the four	
	method of short division and interpret remainders appropriately for the context.		operations. Use written division methods in cases where the answer has up to two decimal	
			<u>Diaces.</u> Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	
	Fractions, ratio and proportion Compare and order fractions whose denominators are all multiples of the		Fractions, ratio and proportion Recall and use equivalences between simple fractions, decimals and percentages,	
	same number. Round decimals with two decimal places to the nearest whole number and to		including in different contexts. Compare and order fractions, including fractions > 1.	
	one decimal place. Add and subtract fractions with the same denominator and denominators that		Multiply one-digit numbers with up to two decimal places by whole numbers. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.	
	are multiples of the same number. Read and write decimal numbers as fractions Recognise and use the user which and the terms to tenthe, bundred the and decimal equivalents.		Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.	
	Read, write, order and compare numbers with up to three decimal equivalents.		Divide proper fractions by whole numbers. $1/3 \div 2= 1/6$ Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [e. 0.3/8].	
	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.		Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.	
	Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple		Solve problems involving similar shapes where the scale factor is known or can be found.	
	of 10 or 25.		and such as 15% of 360] and the use of percentages for comparison.	
	Measurement		and multiples.	
	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.		Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.	
	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.		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 [m3].	
	standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes.		Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice	
	Solve problems involving converting between units of time. Use all four operations to solve problems involving measure [for example, length, mass, where no device devices problems involving interactions of the solution of		versa. using decimal notation to up to three decimal places. Convert between miles and kilometres.	
	volume, moneyj using decimal notation, including scaling.		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.	
Geo	metry.: Shapes, Position and Direction	Geo	onetry: Shapes, Position and Direction	
	Use the properties of rectangles to deduce related facts and find missing lengths and angles.		Draw 2-D shapes using given dimensions and anglesRecognise, describe and build simple 3-D shapes, including making nets.	
	Draw given angles, and measure them in degrees (°). I dentify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and 2 1 a turn (total 180°) other multiples of 90°.		angles in any triangles, quadrilaterals, and regular polyqons. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	
	Statistics and Argebra Solve comparison, sum and difference problems using information presented in a line graph.		Interpret and construct pie charts and line graphs and use these to solve problems. Calculate and interpret the mean as an average.	
	Complete, read and interpret information in tables, including timetables. Use sequencing when working on shape, measures and pattern activities. Solve problems including missing number problems using addition subtraction		Use simple formulae. Generate and describe linear number sequences.	
	multiplication and division facts.		Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns.	
			Enumerate possibilities of combinations of two variables.	

MY MATHS TARGETS KPI Statements_Reasoning statements		MY MATHS TARGETS KPI Statements_Reasoning statements		
Yea	r 6: POS (Expected)	Year	6: Above POS (Exceeding)	
	Mental calculation:	Ν	Iental calculation:	
0	Recall and use addition and subtraction facts for 1 and 10 with decimal	0	Demonstrate rapid recall of number facts and is able to use these fluently to generalise	
~	numbers to two places.	t	to obtain new facts using place value.	
0	numbers.	t	to generate new facts and when working with larger numbers.	
0	Round any whole number to a required degree of accuracy.	0 / s	Apply knowledge of factors, multiples, prime number, squares and commutativity to solving mental calculations of more complex problems.	
_	Geometry- position and direction			
0 0	Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.			
	Number and Place Value Read, write, order and compare numbers up to 10 000 000 and determine	<u>N</u> .	umber and Place Value Show very good understanding of place value and is able to apply this to working	
	the value of each digit.	_	with larger numbers/decimals and in solving problems.	
	Use negative numbers in context, and calculate intervals across zero.		Apply their understanding to solving increasingly complex problems, is able to	
	Addition and Subtraction, Multiplication and Division	٨	Iddition and Subtraction, Multiplication and Division	
	Solve addition and subtraction multi-step problems in contexts deciding		Show a wide repertoire of reliable and efficient calculation strategies, both written and	
_	which operations and methods to use and why.	r	mental, that I can apply when solving problems.	
	Identify common factors, common multiples and prime numbers.		Solve problems of increasingly complexity using a range of strategies and is able to	
	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using		communicate their reasoning.	
	the formal written method of long multiplication		Explain why different methods give the same result	
	Divide numbers up to 4 digits by a two- digit number and interpret		I NINK Creatively when problem solving and am able to justify & prove.	
	appropriate for the context.		and related vocabulary and am able to apply this to solving increasingly complex	
	Use their knowledge of the order of operations to carry out calculations	r	problems.	
	involving the four operations.	A	Apply the knowledge of the inverse operation and the links between division and	
	Use written division methods in cases where the answer has up to two	r	multiplication to solving problems.	
_	decimal places.			
	Use estimation to check answers to calculations and determine, in the			
	Fractions ratio and proportion	Fr	ractions ratio and proportion	
	Recall and use equivalences between simple fractions, decimals and percentages,		Apply my knowledge of fractions to problems involving measures and shapes.	
_	including in different contexts.		Use my knowledge of decimals in problem involving measure to work with increased	
	Compare and order tractions, including tractions > 1. Multiply one-digit numbers with up to two decimal places by whole numbers	6	accuracy.	
	Add and subtract fractions with different denominators and mixed numbers, using the		Demonstrate a very good understanding of the connections between fractions	
_	concept of equivalent fractions.	C +	decimals and percentages and ratio and proportion and am able to use my knowledge	
	Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places		Apply my knowledge of fractions, decimals and percentages to problems of increasing	
	Divide proper fractions by whole numbers. $1/3 \div 2= 1/6$	, L ,	complexity and to explain my reasoning and thinking.	
	Associate a fraction with division and calculate decimal fraction equivalents [for		Apply my knowledge of ratio and proportion to problems of increasing complexity and	
	example, 0.375] for a simple fraction [e.g. 3/8].	t	to explain their reasoning and thinking.	
	the same denomination.			
	Solve problems involving similar shapes where the scale factor is known or can be found			
	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 unequal sharing and grouping using knowledge of fractions			
	Measurement		Measurement	
	Solve problems involving the calculation and conversion of units of measure, using	$\Box$ A	Apply knowledge of other areas of the curriculum to my understanding of problem	
	decimal notation up to three decimal places where appropriate.	- S	solving with measures. E.g. squares, cubes, fractions, multiplication decimals.	
	including cubic centimetres (cm3) and cubic metres (m3), and extending to other units		Convert fluently and efficiently between different units of measures and be able to	
_	[for example, mm3 and km3 ].		Use my understanding of the concepts related to measures to solve increasingly	
	Use, read, write and convert between standard units, converting	- (	complex problems.	
	measure to a larger unit, mass, volume and time from a smaller unit of		Communicate reasoning and talk about mathematics using sophisticated mathematical	
	decimal places		language.	
	Convert between miles and kilometres.	L A	Apply knowledge of measures to other areas of the curriculum such as Science.	
	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.			
Geor	netry: Shapes, Position and Direction	Geome	etry: Shapes, Position and Direction	
	Draw 2-D shapes using given dimensions and anglesRecognise, describe and build simple 3-D shapes including making pets		Creatively apply knowledge of shapes to solving problems with increasing complexity	
	Compare and classify geometric shapes based on their properties and sizes and find	â	and be able to justify reasoning and communicate their thinking.	
	unknown angles in any triangles, quadrilaterals, and regular polygons.		Solve increasingly complex problems involving position and movement.	
	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius recognise angles where they meet at a point	$\Box$	Apply knowledge and understanding of position and movement to other curriculum	
	are on a straight line, or are vertically opposite, and find missing angles.	a	areas such as geography and science.	
	Statistics and Algebra	<u>S</u> t	tatistics and Algebra	
	Interpret and construct pie charts and line graphs and use these to solve		Solve comparison, sum and difference problems using information presented in a line	
	<u>problems.</u>	_ ý	graph.	
	<u>valoulate and interpret the medit as all average.</u>		complete, read and interpret information in tables, including timetables.	
	Generate and describe linear number sequences.		Apply understanding of equivalence in calculation to solve problems with unknowns	
	Express missing number problems algebraically.	/ 2	and more than one possibility.	
	Find pairs of numbers that satisfy an equation with two unknowns.		Use algebra to prove relationships and patterns.	
	Enumerate possibilities of combinations of two variables.		Explain the meaning of the mathematical notation.	