Hulland C of E Primary School

Progression in Mathematics



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Times Tables	I can count in 2's, 5's and 10's from zero	I can count in 3's from zero. I can recall & use multiplication facts for 2, 5 and 10 times tables. I can recall and use division facts for 2, 5 and 10 times tables.	I can recall and use the multiplication facts for 3 and 4 times tables. I can recall and use multiplication and division facts for 3 and 4 times tables. I can recall and use multiplication facts for 8 times tables recognising its relationship to the 4 times table.	I can recall and use multiplication and division facts for the 6 and 9 times tables recognising their relationship to the 3 times table I can recall and use the multiplication and division facts for the 7 times tables I can recall and use the multiplication and division facts for all tables up to 12 x 12	I can recall quickly all the multiplication and division facts for tables up to 12 x 12 and can use them confidently in larger calculations	
YEAR: 1 2 3 4 5	6	Children wor	king below	Child	Iren exceeding	

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Addition	I can add in ones using practical resources I can add in ones using a structured number line I can add in tens and ones using a structured number line I know my number facts to 20	I can add in tens and ones using an unstructured number line. I can partition a number to add using number bonds to 10 e.g. 8 + 7 = 8 + 5 + 2 I can add 10 or 100 to any number and can add in multiples of 10 I can partition 2 and 3 digit numbers and add vertically using base 10 or practical resources without crossing boundaries	I can add 2 digit numbers and 3 digit numbers using expanded column addition (written strategy 2) I can estimate the answer to an addition calculation or use the inverse to check it is correct. I can add 2 digit numbers and 3 digit numbers using column addition	I can add money wit decimal places using expanded column addition I can use inverse operations to check calculations I can add 3 and 4 dig numbers using form column addition I can add money wit decimal places using formal column addition	I can add large numbers in different contexts using formal column addition I can use rounding to estimate and check answers to calculations I can add a mix of whole numbers and decimals with different numbers of decimal places using	real o
YEAR: 1 2 3 4 5	6	Children worl	king helow	Chi	Idren exceeding	
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	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
	I can subtract in ones using practical resources	I can subtract more efficiently using a number line or jumps of multiples	I can partition a number and subtract using column subtraction without		I can subtract large numbers using formal column subtraction		
	I can subtract in ones using a structured number line	of 10 with numbers up to 3 digits	decomposing (2 and 3 digit numbers)		I can use rounding to check answers to calculations		
Subtraction	I can subtract in tens and ones using a structured number line	I can use related facts to subtract multiples of 10 and 100 e.g. 6-4=2 60-40=20	I can estimate the answer to a subtraction calculation or use the inverse to check it is correct		I can subtract a mix of whole numbers and decimals with different numbers of decimal places using		
Subt	I can subtract in tens and ones using an unstructured number line		I can subtract 2 and 3 digit numbers using column subtraction without decomposing		column subtraction		
	I know all the subtraction facts to 20		I can subtract money using £ and p to give change in practical contexts				
YEAR: 1 2 3 4 5	6	Children worl	king below	Ch	Children exceeding		

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication	I can multiply using concrete objects, pictorial representations and arrays with the support of the teacher	I can multiply using concrete objects, pictorial representations, arrays and repeated addition I know that multiplication can be done in any order (commutative)	I can explore the effect of partitioning a number to multiply (distributive law) e.g. exploring 7x8 by splitting 7 into 5 and 2 then calculating 2x8 and 5x8 I can use related facts to multiply multiples of 10 e.g. 2x3=6 2x30=60 I can partition a number into 10's and ones to multiply (distributive law)	I can use related facts to multiply multiples of 10 and 100 e.g. 2x3=6, 2x30=60, 2x300=600 I can use an expanded vertical method to multiply TU and HTU by U I can use an expanded vertical method to multiply money with 2 decimal places by U (a one digit number) I can use a formal vertical method to multiply TU and HTU by U I can use a formal vertical method to multiply TU and HTU by U I can multiply 3 numbers, combining them in different ways and using my knowledge of number facts to make this easier e.g. 2x6x5 = 10x6 derived from (2x5)x6	I can use a formal vertical method to multiply HTU, THHTU and whole numbers with up to 2 decimal places (e.g. money) by U I can use related facts to multiply multiples of 10 and 100 e.g. 2x3=6, 20x30=600 I can multiply TU XTU using diagrams, arrays and grids I can multiply TU X TU using an expanded written strategy I can multiply TU X TU using long multiplication	I can multiply numbers with up to 2 decimal places by a whole number I can use related facts to multiply multiples of 10 and 100 e.g. 2x3=6 200x30=6000 I can use long multiplication to multiply THTU or HTU X TU
YEAR: 1 2 3 4 5	D	Children work	ring below	Childr	en exceeding	

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Division	I can divide using concrete objects, pictorial representations and arrays with the support of the teacher	I can divide using concrete objects, pictorial representations and arrays and repeated subtraction I know that division of one number by another can not be done in any order.	I can divide 2 digit numbers by another number using the tables I know	I can understand the effect of dividing by 1 I can divide 2 digit numbers by increasingly efficient written methods and use related multiplication facts I can divide 3 digit numbers using increasingly efficient written methods and using related multiplication facts	I can divide 4 digit and 3 digit numbers by 1 digit using short division I can solve more complex problems involving division including with remainders and round the answer appropriately in context I can begin to represent a remainder as a decimal or fraction	I can divide numbers up to 4 digits by a 2 digit whole number using expanded long division I can express a quotient as a fraction, decimal or round according to context I can divide numbers up to 4 digits by a 2 digit whole number using long division	
YEAR: 1 2 3 4 5	6	Children worl	king below	Child	Children exceeding		

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions	I can recognise, find and name a half of an object, shape or quantity I can recognise, find and name a quarter of an object, shape or quantity	I can recognise, find, name and write fractions 1/3, 1/4, 2/4, 3/4 of a length, shape, set of objects or quantity I can recognise the equivalence of 2/4 to ½ I can count in halves and quarters up to 10 recognising that fractions are numbers between whole numbers	I can recognise fractions of shapes (unit and non-unit) I can work out fractions of amounts for common fractions e.g. 1/2, 1/4, 3/4, 1/5 of a set of objects I can compare and order fractions with the same denominator I can add and subtract fractions with the same denominator and recognise a whole as a fraction e.g. 2/5 + 1/5 = 3/5 I can compare and order unit fractions with the support of fraction boards and number lines I can recognise and show using diagrams, simple equivalent fractions	I can add and subtract fractions where the denominator is the same beyond a whole I can recognise and show equivalent fractions in a family of fractions I can recognise and work out unit fractions of shapes, lengths and sets of objects e.g. 1/8 of a bar of chocolate made of 40 pieces I can recognise and work out non-unit fractions of shapes, lengths and sets of objects e.g. 3/4 of a metre, or 2/5 of a bar of chocolate made of 20 pieces	I can recognise and convert improper fractions to mixed numbers I can add and subtract fractions with the same denominators including recognising and converting improper fractions to mixed numbers I can compare and order fractions where denominators are in the same fraction family I can add and subtract fractions with denominators in the same fraction family I can multiply proper fractions and mixed numbers by a whole number using diagrams and concrete apparatus	I can simplify fractions using common factors I can use common multiples to express fractions in the same denomination I can compare and order any set of fractions, proper or improper, or mixed numbers, including those with different denominations I can add and subtract fractions and mixed numbers with different denominations using the idea of equivalence I can multiply simple pairs of proper fractions and write the answer in its simplest form e.g. 1/4 x ½ = 1/8 I can divide proper fractions by a whole number e.g. 1/3 ÷ 2=1/6 I can recognise and explore the relationship between multiplying by a whole number and dividing by a reciprocal I can multiply more complex pairs of proper fractions e.g. 3/5 x 4/7
YEAR: 1 2	3 4 5 6	Chile	dren working below		Children exceeding	

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Decimals			I can count in tenths and understand a tenth is as part of a whole divided into 10 equal parts I can recognise and write the decimal equivalent of a tenth using a place value board e.g. 1/10 = 0.1	I can count in tenths and decimal tenths recognising them as numbers between whole numbers I can round a decimal with one decimal place to a whole number I can recognise a hundredth as a whole divided into 100 equal parts and as parts of a tenth I can write the decimal equivalent of tenths and hundredths and recognise them in the context of money I can recognise and write the decimal equivalent of tenths, hundredths and common fractions (1/4, 1/2, 3/4) I can find the effect of dividing one and two digit numbers by 10 and 100 and identify the value of the digits in the answer as units, tenths and hundredths I can compare and order decimals with the same number of decimal places up to 2 decimal places	I can compare and order whole numbers and decimals with up to 2 decimal places I can round decimals with 2 decimal places to the nearest whole number and one decimal place I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents I can read, write, order and compare numbers that have a mixture of 1,2 or 3 decimal places	I can multiply and divide by 10, 100 and 1000 giving answers up to 3 decimal places I can associate a fraction with division and calculate decimal equivalents of common fractions such as halves, quarters and fifths I can calculate more complex decimal equivalents such as 3/8 = 0.375 using my understanding of the equivalence between fractions and decimals I can round answers with specific degree of accuracy (where this has been specified) I can recognise what degree of accuracy is appropriate when rounding decimals When using a calculator to solve problems, I can round the answer appropriately in context
YEAR: 1 2	3 4 5 6		Children working below	V	Children exceeding	

	Year 1	Year 2	Year 3	Year 4	Year	5	Year 6
Percentage and ratio					I can recognise and as a part of 100 and a fraction and a de	d write a % as cimal	I can recall and use equivalence between fractions, decimals and % to solve problems e.g. 10% of £5.00 or 50% of the team I can solve % problems in a variety of contexts such as comparing % (e.g. best buys) I can solve problems involving similar shapes where the scale factor is known or can be found I can identify that a problem can be written as a ratio and solve problems using this relationship I can divide a quantity in a given ratio (recognising the proportion as a fraction of the whole) I can solve more complex % problems in context such as % deduction I can link % to calculating simple angles in a pie chart (e.g. recognise that 50% is 180 degrees) I can solve more complex problems using a unitary method (i.e. scaling down to 1 and then up again)
YEAR: 1 2	3 4 5 6		Children worki	ng below		Children e	xceeding

	Year 1	Year 2	Year 3	Year 4		Year 5	Year 6
Problem Solving	I can solve addition and subtraction 1 step word problems using concrete apparatus I can solve multiplication and division 1 step word problems using concrete apparatus (2,5 and 10 x tables only) I can solve practical problems in the context of measure e.g. length, weight, capacity and time	I can solve missing number problems for addition and subtraction with numbers up to 20 I can solve simple word problems involving addition and subtraction with numbers up to 50 I can solve multiplication and division problems using pictures and diagrams I can use place value and number facts to solve problems I can solve simple money problems involving addition and finding change (£ or pence)	I can solve money problems involving addition and finding the change (both £ and pence) I can solve missing number problems for addition, subtraction, multiplication and division with numbers up to 100 using my knowledge of number facts and the relationship between operations I can solve 1 step word problems involving addition and subtraction (including numbers beyond 100) I can solve 1 step word problems involving multiplication and division I can solve simple correspondence problems (e.g. 'share 4 cakes equally between 8 children' or '4 hats, 3 coats, how many different outfits?' I can estimate an answer to an addition or subtraction problem and use the inverse to check an answer I can solve simple scaling problems (e.g. twice as long)	I can solve missing number problems with increasingly large numbers using my knowledge of place value and relationship between operations I can estimate answers and use inverse operations to check answers to a calculation in the context of a problem I can solve 2 step word problems involving addition and subtraction deciding which operations to use and when I can solve 2 step word problems involving all 4 operations, deciding which operations to use and when I can solve more complex scaling problems (e.g. 8 times as high) I can solve more complex correspondence problems, choosing how to tackle and present the problem clearly (e.g. 'share 3 cakes equally between 10 children' or '3 starters, 3 mains, 3 desserts how many meal options?'	answers determing problem I can solve multi-stee deciding and why I can solve interprese and adjust approprior including including the 4 op I can use equivale (e.g. 5x) I can inventoring properti	ve division problems ting remainders in context usting the answer iately ve problems involving tation and division g scaling by simple fractions ve multi step problems g a combination of any of terations e all 4 operations to solve the statements e = 18 + 12) estigate a problem g place value and test of number, and present stigation in a clear	I can solve addition and subtraction multi-step problems in context, with increasingly large numbers, deciding which operations to use and why I consistently check the reasonableness of my answer in all calculations I can round and estimate as a means of predicting and checking the order of magnitude of my answers to a decimal calculation I can solve multi-step word problems and investigations involving all 4 operations from a large range of contexts I can express missing number problems algebraically I can find pairs of numbers that satisfy an equation with two unknowns I can solve a variety of number problems using formulae and algebraic equations I can solve real life and financial problems e.g. comparing holiday packages or working out household bills
YEAR: 1 2	3 4 5 6		Children working l	pelow		Children exceeding	

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Properties of numbers			I can recognise patterns in some multiplication tables (2,5,10,4 and 8)	I can recognise factor pairs of a number and multiples of single digit numbers I can recognise patterns across all the multiplication tables I can use the = sign to write equality statements for addition, subtraction and multiplication	I can identify multiples and factors including finding all factor pairs of a number and common factors of two numbers I know and use the vocabulary of prime numbers, prime factor and composite (non-prime) numbers I can work out if a number up to 100 is a prime number and have quick recall of all the prime numbers up to 19 I can recognise and describe linear number sequences including those involving fractions and decimals and find the term to term rule e.g. add half I can recognise squared and cubed numbers and use the	I can identify common factors, common multiples and prime numbers, with increasingly large numbers I can explore the order of operations using brackets I can generate and describe linear number sequences I can make generalisations about number patterns and express them algebraically I can identify square roots and cube roots which give integer solutions (whole number answers) I can identify the region for solutions of square roots (not square numbers) and use this as a starting point for trial and improvement
YEAR: 1 2 3	4 5 6		Children working b	pelow	Children exceeding	

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measures	I can compare, describe, measure and record length and height I can compare, describe, measure and record capacity and volume I can compare, describe, measure and record weight and mass I recognise and know the value of different denominations of coins and notes	I can measure using appropriate equipment e.g. ruler, weighing scales, measuring jug I can choose appropriate units of measure to estimate length, height, mass and capacity I can recognise and use symbols of £ and p I can combine amounts to make a particular value e.g. make 3p using 2p and 1p I can find different combinations of coins that equal the same amounts I can compare and order measures and record using < > and =	I can read measuring instruments with increasing accuracy I can compare, add and subtract measures I can add and subtract amounts of money to give change, using both £ and p in practical contexts I can solve problems involving measure including simple problems of scale e.g. twice as high I can read measures in mixed units and can convert simple whole units of measure e.g. 5m=500cm	I can recognise £ and p in context and recognise equivalence e.g. 306p = £3.06 I can convert between units of measure with the support of measuring instruments and where appropriate record with decimal notation I can convert between units of measure using multiplication and division and where appropriate record with decimal notation I can estimate, compare and calculate measures in a variety of contexts	I can convert between different units of measure using my understanding of x and ÷ by 10, 100 and 1000 I can use all 4 operations to solve problems involving length, mass, capacity and scaling I can estimate volume and capacity and explore these concepts using practical materials I can understand and use approximate equivalences between metric units and common imperial units (inches, pounds, pints)	I can use, read, write and convert between standard units of measure using decimal notation up to 3 decimal places I can solve problems involving the calculation and conversion of units of measure using decimal notation up to 3 decimal places I can calculate, estimate and compare volume of cubes and cuboids using standard units e.g. cm3 I can recognise when it is possible to use formulae to calculate volume I can convert between miles and km I can understand compound units for speed and use them in context e.g. science
YEAR: 1 2 3	3 4 5 6	Ch	ildren working below		Children exceeding	experiments

Year 2	Year 3	Year 4	Year 5	Year 6
I know how many hours there are in a day and how many minutes in an hour I can compare and sequence intervals of time I can read and write the time of an analogue clock for quarter past and quarter to I can tell and write the time to 5 minutes and draw the hands on a clock face to show these times	I can use the vocabulary of time and know the number of seconds in a minute, days in each month, year and leap year I understand and use vocabulary such as o'clock, am, pm, noon and midnight I can record time in seconds, minutes and hours and can compare lengths of time (e.g. which is longer) I can read and write the time to the nearest minute of an analogue clock I can calculate and compare time durations I can read the time on a digital clock (12 hour) and compare to an analogue clock I can read the time on a 24 hour digital clock	I can read, write and convert time between analogue and digital 12 and 24 hour clocks I can solve problems calculating lengths of time I can convert hours to minutes, minutes to seconds, years to months or weeks to days	I can solve problems which involve converting between units of time e.g. expressing the answer as days and weeks I can solve problems involving time including reading simple timetables	
Chi			Children exceeding	
	I know how many hours there are in a day and how many minutes in an hour I can compare and sequence intervals of time I can read and write the time of an analogue clock for quarter past and quarter to I can tell and write the time to 5 minutes and draw the hands on a clock face to show these times	I know how many hours there are in a day and how many minutes in an hour I can compare and sequence intervals of time I can read and write the time of an analogue clock for quarter past and quarter to I can tell and write the time to 5 minutes and draw the hands on a clock face to show these times I know how many hours the time and day and hour and leap year I can read and use vocabulary such as o'clock, am, pm, noon and midnight I can record time in seconds, minutes and hours and can compare lengths of time (e.g. which is longer) I can read and write the time to the nearest minute of an analogue clock I can read the time on a digital clock (12 hour) and compare to an analogue clock	I know how many hours there are in a day and how many minutes in an hour of seconds in a minute, days in each month, year and leap year I can compare and sequence intervals of time I can read and write the time of an analogue clock for quarter to of seconds, minutes and draw the hands on a clock face to show these times I can read the time on a digital clock I can read the time on a 24 hour digital clock I can read the time on a 24 hour digital clock I can read the time on a 24 hour digital clock	I know how many hours there are in a day and how many minutes in an hour fixed seconds in a minute, days in each month, year and leap year fixed sequence intervals of time fixed and use vocabulary such as o'clock, am, pm, noon and midnight fixed for quarter to fixed face to show these times fixed face to show these times for the fixed face to show these fixed face to show these fixed face to show the fixed face for fixed face to show the fixed face for fix

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Perimeter and area			I can measure the perimeter of simple 2D shapes	I can calculate the perimeter of rectangles including squares I can find the area of rectangles by counting squares I can calculate the area of rectangles using multiplication	I can measure and calculate the perimeter of shapes that need to be divided into rectangles (composite rectilinear shapes) in cm and m I can measure and calculate the area of shapes that need to be divided into rectangles (composite rectilinear shapes) in cm2 and m2 I can estimate the area of irregular shapes I can calculate and compare the area of rectangles using cm2 and m2 including from scale drawings I can find unknown lengths on rectilinear shapes using my understanding of perimeter and area	I can investigate relationships between area and perimeter e.g. shapes with the same area can have different perimeters and vice versa I can calculate the area of parallelograms and triangles I can recognise when it is possible to use formulae to calculate area I can calculate area and perimeter of compound shapes including parallelograms and triangles
YEAR: 1	2 3 4 5 6		Children working I	oelow	Children exceeding	

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	I can answer simple questions about quantities from looking at tally charts and simple tables I can answer simple questions about quantities from looking at pictograms and block charts (scale of 1 or 2) I can interpret and construct simple tally charts and tables I can interpret and construct simple pictograms and block diagrams I can answer questions by comparing information in simple bar charts e.g. Which has the most? How much altogether?	I can interpret data in charts and graphs including reading a scale of 2,5, and 10 I can present data in charts and graphs including a scale of 2,5 and 10 I can solve one step problems using the information presented in charts and graphs I can solve 2 step problems using the information presented in charts and graphs e.g. how many more/fewer?	I can interpret data presented in a range of graphical representations with a greater range of scales I can present discrete data using appropriate graphical methods I can interpret continuous data in the form of time (line) graphs recognising that it is recording a change over time I can present continuous data in the form of time (line) graphs recognising that it is recording a change over time I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and	I can solve comparison, sum and difference problems using information presented in line graphs I can complete, read and interpret information presented in tables and other graphical representations I can decide which representations of data are most appropriate and explain why	I can interpret a pie chart I can construct a pie chart I can solve problems using the data from line graphs (including conversion graphs) and pie charts including ones I have constructed myself I can calculate the mean as an average and understand when it is appropriate to find the mean of a set of data I can read and interpret linear proportional graphs (e.g. speed)
6	Children work	king below		ren exceeding	
	Year 1	I can answer simple questions about quantities from looking at tally charts and simple tables I can answer simple questions about quantities from looking at pictograms and block charts (scale of 1 or 2) I can interpret and construct simple tally charts and tables I can interpret and construct simple pictograms and block diagrams I can answer questions by comparing information in simple bar charts e.g. Which has the most? How much altogether?	I can answer simple questions about quantities from looking at tally charts and simple tables I can answer simple questions about quantities from looking at pictograms and block charts (scale of 1 or 2) I can interpret and construct simple tonstruct simple pictograms and block diagrams I can answer questions by comparing information in simple bar charts e.g. Which has the most? How much altogether?	I can answer simple questions about quantities from looking at tally charts and simple tables I can answer simple questions about quantities from looking at pictograms and block charts (scale of 1 or 2) I can interpret and construct simple pictograms and block diagrams I can interpret and construct simple pictograms and block diagrams I can answer questions by comparing information in simple bar charts e.g. Which has the most? How much altogether? I can answer simple questions about cally charts and graphs including a scale of 2,5 and 10 I can present data in charts and graphs including a scale of 2,5 and 10 I can present data in charts and graphs including a scale of 2,5 and 10 I can present data in charts and graphs including a scale of 2,5 and 10 I can solve one step problems using the information presented in charts and graphs I can interpret and charts and graphs including a scale of 2,5 and 10 I can solve construct simple problems using the information presented in charts and graphs I can interpret data in charts and graphs including a scale of 2,5 and 10 I can present diata in charts and graphs including a scale of 2,5 and 10 I can present diata in the graphs of scales I can solve one step problems using the information presented in charts and graphs I can interpret and charts and graphs including a scale of 2,5 and 10 I can solve one step problems using the information presented in charts and graphs I can interpret data in charts and graphs including a scale of 2,5 and 10 I can present diata in the graphs of cata using appropriate graphs recognising that it is recording a change over time I can answer questions by comparing information in simple bar charts e.g. Which has the most? How much altogether? I can interpret and charts and graphs including a scale of 2,5 and 10 I can present data in the form of time (line) graphs recognising that it is recording a change over time I can solve can presented in charts and graphs or time form of time (line) graphs recognising that it is reco	I can answer simple questions about quantities from looking at tally charts and simple tables I can answer simple questions about quantities from looking at pictograms and block charts (scale of 1 or 2) I can interpret data in charts and graphs including reading a scale of 2,5 and 10 I can present data in charts and graphs including a scale of 2,5 and 10 I can present data in charts and graphs including a scale of 2,5 and 10 I can present data in charts and graphs including a scale of 2,5 and 10 I can interpret and construct simple pictograms and block diagrams I can interpret and construct simple pictograms and block diagrams I can answer questions by comparing information in simple bar charts e.g. Which has the most? How much altogether? I can answer questions about quantities from looking at pictograms, tables and other graphs I can solve comparison, sum and difference problems using the continuous data in the form of time (line) graphs recognising that it is recording a change over time I can answer questions by comparing information in simple bar charts e.g. Which has the most? How much altogether?

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Shape	I can recognise and name common 2D shapes (rectangle, circle, square, triangle) I can recognise and name common 3D shapes (cuboid, cube, pyramid, sphere)	I can identify, describ- and sort 2D shapes by naming them, talking about the number of sides and showing a vertical line of symme I can identify, describ- and sort 3D shapes by talking about the num of faces, edges and vertices I can identify 2D shap on the surface of 3D shapes e.g. circle on a cylinder I can compare and so common 2D and 3D shapes in everyday objects	vertical lines and pairs of perpendicular and parallel lines I can identify right angles and describe how right angles can make up 1/4, 1/2, 3/4 and a whole turn of the lines I can recognise right angles in 2D shapes and say if an angle is greater or less than a right angle I can draw 2D shapes and describe them using my knowledge of sides and	I can compare and order angles I can identify and name acute and obtuse angles I can name, describe and sort a variety of quadrilaterals and triangles based on their properties I can complete symmetrical shapes and patterns with respect to a specific line of symmetry I can identify lines of symmetry in 2D shapes presented in different orientations	I can identify and compare acute, obtuse and reflex angles I can draw and measure given angles in degrees I can identify regular and irregular shapes using my knowledge of length of sides and angles I can identify 3D shapes from 2D representations I can calculate missing angles on a straight line (180) or at a point (360) or within a right angle (90) I can find missing lengths and angles in rectangles using my knowledge of related facts	I can accurately draw 2D shapes using given angles and dimensions I can recognise, describe and build simple 3D shapes including making nets I can compare and classify geometric shapes based on their size and properties and can find unknown angles in any triangle, quadrilateral or regular polygon I can illustrate and name parts of a circle including radius, diameter and circumference and know that diameter is twice the radius I can recognise vertically opposite angles and use this to calculate missing angles I can solve problems using my knowledge of circle properties
TEAR. I	2 3 4 5 6		Children working below		Children exceeding	

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Position and direction	I can describe position, direction and movement including whole, 1/2, 1/4, and 3/4	I can order and arrange combinations of mathematical objects in patterns and sequences I can use mathematical vocabulary to describe position, direction and movement including movement in a straight line I can distinguish between rotation as a turn and in terms of right angles for quarter, half and		I can describe positions on a 2D grid I can use co-ordinates to plot a shape on a grid (1st quarter) I can complete polygons by giving a missing co-ordinate on a grid I can translate shapes on a grid and describe the movement using left/right, up/down	I can identify, describe and draw the position of a shape on a grid after a reflection on a line parallel to the axis I can identify, describe and draw the position of a shape on a grid after a translation	I can label the axis of a grid in all 4 quadrants and describe a position on the grid I can draw and translate simple shapes on a 4 quadrant grid I can reflect simple shapes in the axes I can predict missing co-ordinates using the properties of shapes I can express missing co-ordinates
		three quarter turns				algebraically
YEAR: 1 2 3 4 5	6	Children work	king below	Child	ren exceeding	

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
	I can read and write numbers from 1 to 20	I can understand the value of each digit in	I can understand the value of each digit in	I can understand the value of each digit in	I can read write order and compare	I can read, write order and compare	
	in numerals and	_	9	a 4 digit number	numbers to	numbers up to	
		a 2 digit number	a 3 digit number	a 4 digit number		· ·	
	words	1	t and made dead constant	1	1 000 000 (1 million)	10,000,000 and	
		I can compare and	I can read and write	I can represent	and determine the	determine the value	
	I can read and write	order numbers from	numbers up to 1000	numbers in different	value of each digit	of each digit	
	numbers from 1 to	0 up to 100 using > <	in numerals and	ways e.g. words,			
(I)	100 in numerals	and = signs	words	numerals, base 10 etc	I can round any	I can round any	
					number up to	whole number to a	
Place Value	I can identify one	I can count in tens	I can compare and	I can compare and	1,000,000 to the	required degree of	
<u></u>	more/ one less from a	from any number	order numbers up to	order numbers	nearest 10, 100,	accuracy	
	given number	including crossing	1000	beyond 1000	1000, 10,000 and	I can use negative	
		boundaries into			100,000	numbers in context	
(1)	I can identify odd and	hundreds	I can count in tens	I can say 1000 more		and calculate	
Y	even numbers up to		and hundreds and	or less than any given	I can count forwards	intervals across zero	
	20		can add or subtract	number	and backwards in		
10			10 or 100 from any		steps of 10 for any		
<u> </u>	I can continue simple		given number up to	I can round any	given number up to		
	number sequences		1000	whole number to the	1,000,000		
	and shape patterns			nearest 10, 100 or			
				1000	I can interpret		
					negative numbers in		
				I can count	context		
				backwards through			
				zero to include			
				negative numbers			
YEAR: 1 2 3 4 5	YEAR: 1 2 3 4 5 6		Children working below		Children exceeding		