

Number							
Year 1 Developing	Year 1 Expected	Year 2 Expected	Year 3 Expected	Year 4 Expected	Year 5 Expected	Year 6 Expected	Year 6 Exceeded
Count reliably to and from 20 putting numbers in order	Read, write and count to and across 100 forwards and backwards recognising odd and even numbers. Read and write numbers 0-20 in numerals and words	Read, write and compare and order numbers 0-100 using < > and = confidently	Read, write and compare and order numbers 0-1000 in numerals and words	Read, write compare and order numbers beyond 1000 in numerals and words Read Roman numerals to 100 and understand how they have changed through time	Read, write compare and order numbers to at least 1 000 000 Read Roman numerals to 1000 and recognise years in Roman Numerals	Read, write compare and order numbers to at least 10 000 000	
Say more/less than numbers to 20	Count in multiples of 2, 5 and 10 to 100. Say 1 more or 1 less than any number up to 100	Count in steps of 2, 3, 5 and 10 from any number forward and backwards	Count in multiples of 3, 4, 8, 50 and 100 from any number forward and backwards	Count in multiples of 6, 7, 9, 25 and 1000 from any number forwards and backwards counting through negative numbers	Interpret negative numbers and count forwards and backwards through zero	Use negative numbers in context and calculates intervals across zero	
	Identify and represent numbers using objects and pictures	Recognise the value of any digit in a 2 digit number	Recognise the value of any digit in 3 digit number	Recognise the value of any digit in a 4 digit number	Recognise the value of any digit to at least 1 000 000		

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Accurately use simple mathematical language - more, less and equal	Accurately use mathematical language - equal, more, less, fewer, most, least	Accurately use mathematical language - equal, more, less, fewer, most, least within word problems					
		Use place value and number facts to solve problems	Solve practical problems applying place value knowledge	Solve practical problems using increasingly large positive numbers		Use prior knowledge to solve multistep problems	
				Round any number to nearest 10, 100 and 1000	Round any number to nearest 10, 100, 1000, 10 000 and 100 000	Round any whole number to a required degree of accuracy	Round numbers to an appropriate degree of accuracy to a number of decimal places or significant figures

Calculations

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Begin to relate subtraction to taking away and addition to getting	Begin to use the + - and = signs to record mental calculations	Use inverse strategies applying + - and =. Addition can be in any order,	Check answers using inverse strategies.				

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bigger. Use a structures number line to add and take away.		subtraction cannot be reversed.					
Count on and back in ones from any given number. Find 1 less and 1 more than a number up to 20.	Solve one step problems. Add 3 one digit numbers.	Solve addition and subtraction problems using the column method involving 2 digit numbers.	Apply the column method using carrying and exchanging to complex problems. Apply this to 3 digit numbers.	Apply the column method using carrying and exchanging to complex problems involving 4 digits. Solve two step problems.	Apply the column method using carrying and exchanging with numbers over 4 digits. Solve addition and subtraction multi step problems deciding which operation to use and why.		
	Recall and use bonds to 20 confidently.	Apply bonds to 20 Have knowledge of bonds to 100.					
Count forwards and backwards using rhymes and stories.	Add and subtract 1d and 2d numbers up to 20. Begin to partition to add and take away.	Add and subtract 10 from a 2 digit number. Add and subtract multiples of 10					

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	Add and subtract a 1 digit number from a 2 digit number often bridging 10.	from a 2 digit number. Partition a number to be added or subtracted. Use an empty number line to add and subtract 2 digit numbers.					
		Estimate answers to addition and subtraction problems using 2 digits.	Estimate answers to addition and subtraction problems using 3 digits.	Estimate answers to addition and subtraction problems using 4 digits.	Estimate answers to any addition and subtraction problems.		
		Times and divide by 2, 5 and 10 using \times and \div to record	Know multiplication and division facts for 3, 4 and 8 \times and \div to record	Recall multiplication and division facts up to 12×12 \times and \div to record. Recognising factor pairs.	Use multiples and factors including factor pairs and common factors. Solve multiplication and division problems using factors. Recall prime numbers up to 19 using vocabulary.	Identify common factors and common multiples. Identify the prime numbers.	
	Double any number up to	Solve multiplication	Begin to use formal written	Begin to multiply a 3digit number by a	Multiply a 4 digit number by a 1 or	Multiply 4 digit numbers by 2	

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	20. (7.3)	problems using objects and mentally understand that multiplication can be in any order	methods for 2digit X 1digit	2digit using formal methods	2 digit number using long multiplication. Divide a 4 digit number by a 1 digit number using short division methods using remainders	digit numbers using long multiplication. Divide up to 4 digit numbers by 2 digit numbers using long division interpreting remainders as whole numbers and fractions.	
			Solve multiplication problems, including missing number problems	Solve problems using distributive law e.g. $39 \times 7 = 30 \times 7 + 9 \times 7$. Be able to use knowledge to multiply and divide mentally.	Solve multi step multiplication and division word problems		
			Apply multiplication facts to multiples of 10.				
				Recognise squared (²), cubed (³) and square root ($\sqrt{\quad}$) signs			
Fractions							
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Developing	Expected	Expected	Expected	Expected	Expected	Exceeded	
Be able to find $\frac{1}{2}$ of a shape or number below 10	Recognise, find and name $\frac{1}{2}$ and $\frac{1}{4}$ of a shape or quantity	Recognise, find and name $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{2}{4}$ and $\frac{3}{4}$ of a shape or quantity	Recognise, find and write fractions of sets of objects Show fractions using shapes		Recognise and use mixed numbers and improper fractions and convert from one to the other. Be able to multiply these by a whole number	Use common factors to simplify fractions. Multiply simple pairs of proper fractions and write answer in simplest form and divide proper fractions by whole numbers.	
			Count up and down in tenths	Count up and down in hundredths. Recognise and write decimal equivalents of any number with 10ths and 100ths	Recognise and use 1000ths relating them to 10ths and 100ths		
			Solve fractional problems	Solve fractional problems involving complex fractions	Solve problems involving decimal and percentage equivalents of $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{2}{5}$ $\frac{4}{5}$	Use prior knowledge of rounding to solve problems involving decimals	
			Add and subtract fractions with the same denominator		Add and subtract fractions with the same denominator or a denominator of a multiple of the	Add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions	

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			Compare and order fractions with the same denominator		same number Compare and order fractions when denominators are multiples of the same number	Compare and order fractions including fractions $>$ $<$ and $=$ 1	Order positive and negative integers, decimals and fractions using \geq \leq \neq
		Recognise equivalence e.g. $2/4 = \frac{1}{2}$	Know pairs of fractions which make 1 whole	Recognise and show equivalent fractions. Recognise and write decimal equivalents of any number with $\frac{1}{4}$ $\frac{1}{2}$ and $\frac{3}{4}$	Identify, name and write equivalent fractions	Recall and use equivalences between simple fractions, decimals and percentages, including different contexts	Work interchangeably with corresponding decimals and fractions
			Recognise $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$ and 1 whole as a decimal.	Round decimals with 1 dp to the nearest whole number. Compare numbers with the same number of decimal places up to 2 dp including using money.	Round decimals with 2dp to nearest whole number and to 1dp. Read, write, order and compare numbers up to 3dp. Read decimals as fractions.	Identify the value of each digit in numbers with up to 3 decimal places. Multiply and divide by 10, 100 and 1000 where the answer is up to 3 decimal places	Understand and use place value for decimals
			Associate a fraction with	Divide 1 digit by 10 or 2 digit numbers by 100	Divide any number by 10 or 100 applying	Use written division and multiplication methods where an answer has up	

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			division.		decimal notation	to 2 dp and solve problems which have to be rounded to any degree of accuracy	
Measurement							
Year 1 Developing	Year 1 Expected	Year 2 Expected	Year 3 Expected	Year 4 Expected	Year 5 Expected	Year 6 Expected	Year 6 Exceeded
Measure and compare length, height and weight using non standard measures.	Measure, record, compare, describe and solve problems for length, height, mass, weight, capacity, volume and time using non standard measures	Compare and order length, mass, capacity and volume using standard measures < > and =	Measure, compare, add and subtract length, mass, capacity and volume.	Convert units of measurements e.g. km to m or hours to minutes	Convert between different units of metric measurements. Understand and use the difference between metric and imperial units	Use, read, write and convert between standard units (including miles and kilometres), using decimal notation up to 3 decimal places	
Recognise and name coins	Recognise and know the value of coins and notes. Use different combinations of coins to make the same amount.	Recognise and use £ and p using different combinations to make set amounts. Solve practical word problems applying addition,	Apply knowledge of money to word problems using the four rules				

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		subtraction and giving change					
Tell the time to the hour	Tell the time to hour, half past and draw these times.	Tell, write and draw the time to the nearest 5 minutes	Tell all analogue times (both 12hr and 24hr) including Roman Numerals	Read, write and convert analogue and digital time (both 12hr and 24hr)	Solve problems converting between units of time		
Be able to name the days of the week	Recognise and use days, weeks and months.	Compare and sequence intervals of time. Know the number of minutes in an hour and number of hours in a day.	Compare durations of events. Know seconds in a minute, days in a month, year and leap year	Solve problems involving conversions e.g. years to months			
			Measure perimeter of simple 2D shapes	Measure and calculate the perimeter and area of any rectilinear shape counting squares	Measure and calculate the area of any rectilinear shape using standard measurement and estimate the area of irregular shapes	Recognise that shapes with the same area can have different perimeters. Recognise when it is possible to use formulae to find area and volume. Calculate the area of parallelograms and triangles	

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					Solve problems using all four operations involving measures including scaling	Solve problems involving the calculation and conversion of units of measure	
						Calculate, estimate and compare volume of cubes and cuboids using standard units	

Geometry

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Name simple 2D shapes - circle, triangle, square, oblong	Recognise and name 2D shapes - oblongs (including squares), circles, triangles and 3D shapes - cuboids (including cubes),	Identify and describe properties of 2D and 3D shapes. Identify 2D shapes on the face of 3D shapes. Compare and sort common 2D and 3D shapes including everyday objects	Draw 2D shapes and make 3D shapes in different orientations. Recognise that angles can be properties of a shape	Compare and classify shapes based on properties and sizes	Use properties of rectangles to deduce facts e.g. missing lengths and angles	Compare and classify geometric shapes based on properties	

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	pyramids and spheres						
	Order and arrange patterns		Identify right angles. Recognise 2 right angles are $\frac{1}{2}$ turn and 3 right angles are $\frac{3}{4}$ turn. Identify greater/smaller than a right angle	Identify acute and obtuse angles and compare and order angles up to 2 right angles.	Identify 360° as a full turn and 180° as a straight line. Know other multiples of 90° Know angles are measured in degrees and draw given angles and measure them in degrees	Find unknown angles in triangles, quadrilaterals and regular polygons. Recognise angles where they meet at a point - on a straight line, vertically opposite and find missing angles.	
			Identify horizontal/vertical/perpendicular/parallel lines				
		Describe movement using technical vocabulary e.g. clockwise/anticlockwise		Describe positions on a 2D grid as coordinates in the first quadrant and plot specified points. Describe movements			

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				between positions e.g. left/right/up/down			
				Identify lines of symmetry in 2D shapes in different orientations			
				Complete a simple symmetrical figure using a specific line of symmetry			
				Identify 3D shapes from 2D representation	Draw 2D shapes using given dimensions and angles Recognise, describe and build 3D shapes including making nets		

Statistics

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Collect simple data and present in a tally chart	Collect data and present on tally charts, bar charts and	Interpret and construct pictograms, tally charts, block diagrams and tables	Interpret and present data into pictograms, bar charts and tables e.g. scale of 2, 5 or	Interpret and present discrete and continuous data choosing appropriate	Complete, read and interpret information on tables including timetables	Interpret and construct pie charts and line graphs, using them to solve problems	Use a scatter graph to explain the correlation between two

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	pictograms		10	graphical methods			sets of results. Design, trial and refine methods of collection if necessary. Design and use a grouped frequency table.
	Answer simple questions about charts	Ask and answer simple questions about charts totalling and comparing data	Solve one and two step problems based on charts	Solve comparisons, sum and difference problems using information presented in charts	Solve comparisons, sum and difference problems using information presented on a line graph	Calculate and interpret the mean, mode, range and median	
Position and Direction							
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			Be able to name a single point coordinate in a single quadrant	Describe any position on a 2D grid as coordinates in the first quadrant	Describe positions on the full coordinate grid (all four quadrants)	Describe how coordinates move using appropriate language e.g. half and quarter turns	Plot coordinates which satisfy a rule and describe what happens to the resulting

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							graph
				Describe movements between positions within the first quadrant e.g. left/right/up/down	Describe movements between positions across all 4 quadrants	Identify, describe and represent the position of a shape following a reflection or translation. Know that the shape has not changed	Reflect shapes on graph paper given the equation of the mirror line
				Plot specified points and join them to draw a polygon	Draw and translate simple shapes on the coordinate plane and reflect them in the axes	Fully describe the rotation of a shape	

Ratio and Proportion

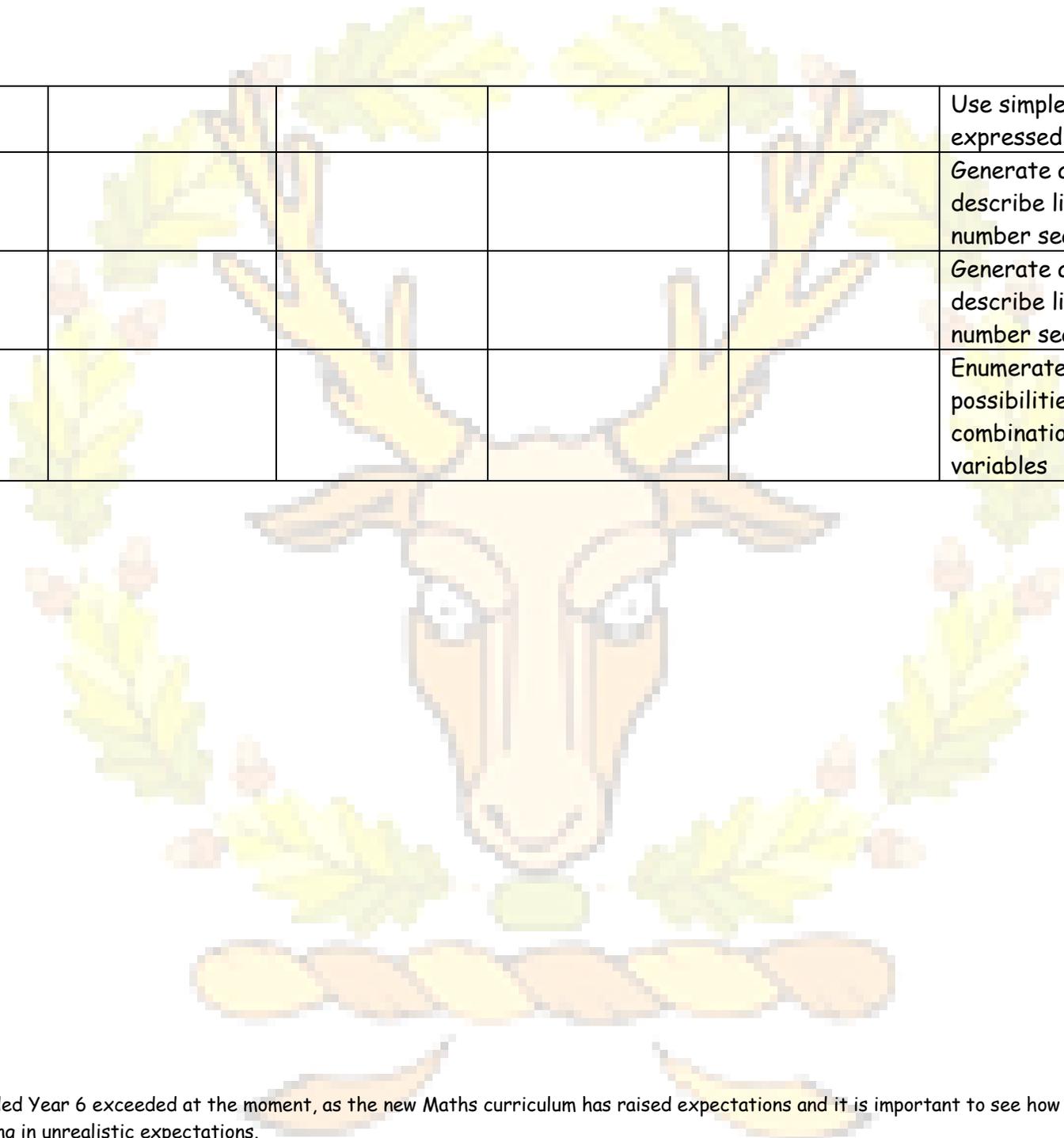
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						Solve problems involving the relative sizes of 2 quantities where missing values can be found using integer multiplication and division facts	
						Solve problems involving the calculation of percentages such as	

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						15% of 360 and the use of percentages for comparison	
						Solve problems involving similar shapes where the scale factor is known or can be found	Confidently solve ratio and proportion problems applying the Expected skills, including dividing quantity into 2 or more parts in a given ratio
						Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	
Algebra							
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						Express missing number problems algebraically	

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						Use simple formulae expressed in words	
						Generate and describe linear number sequences	
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						Enumerate all possibilities of combinations of two variables	



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