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Number and Place Value						
EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Uses number names and symbols when comparing numbers, showing interest in large numbers	Count forwards in 1s, 2s, 5s and 10s up to 100 starting at any number.	Count forward in steps of 2, 3, 10 and 5 from any number up to 100.	Count from 0 in multiples of 4	Count from 0 in multiples of 6	I know what each digit represents in numbers to 1,000,000	I know what each digit represents in numbers to 10,000,000
Estimates of numbers of things, showing understanding of relative size	Count backwards in 1s, 2s, 5s and 10s up to 100.	Count backward in steps of 2, 3, 10 and 5 from any number near to 100.	Count from 0 in multiples of 8	Count from 0 in multiples of 7	I can read and write numbers to at least 1,000,000	I can read and write numbers up to 10,000,000
Enjoys reciting numbers from 0 to 10 (and beyond) and back from 10 to 0	Read numbers from 1 to 20 in digits and words.	Order at least three numbers both increasing and decreasing from 0 up to 100 using <, > and =	Count from 0 in multiples of 50	Count from 0 in multiples of 9	I can order and compare numbers to at least 1,000,000	I can order and compare numbers up to 10,000,000
Increasingly confident at putting numerals in order 0 to 10 (ordinality)	Write numbers from 1 to 20 in digits and words.	Partition numbers (tens, ones) and use this to solve missing number problems.	Count from 0 in multiples of 100	Count from 0 in multiples of 25	I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10 000 and 100 000	I can round any whole number up to a required degree of accuracy (e.g. to nearest 10, 10 000, 100)
Engages in subitising numbers to four and maybe five	Say a number which is one more than any given number up to 100.	Read and write numbers to at least 100 in numerals and in words.	Find 100 more or less than a given number	Count from 0 in multiples of 1000	I can count forwards and backwards in steps of 10, 100, 1000, 10 000, 100 000 from any given number up to 1 million	I can use negative numbers in context (e.g. temperature) and can calculate intervals across zero
Counts out up to 10 objects from a larger group.	Say a number which is one less than any given number up to 100.	[redacted]	Recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)	Count backwards to include negative numbers	I can tell you about negative numbers in context (e.g. temperature) and can count forwards and backwards, including through zero	I can solve problems involving all of the above
Matches the numeral with a group of items to show how many there are (up to 10)	Make numbers using objects and number lines.	[redacted]	Compare and order numbers up to 1,000	Find 1000 more or less than a given number	I can solve problems involving all of the above	[redacted]
Shows awareness that numbers are made up (composed) of smaller numbers, exploring partitioning in different ways with a wide range of objects	Use =, >, <, most and least up to 100 in number sentences.	[redacted]	Read numbers up to 1000 in numerals and words	Recognise the place value of each digit in a 4-digit number (1000s,100s, 10s, 1s)	I can read Roman Numerals to 1000 and can recognise years written in Roman Numerals	[redacted]

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Begins to conceptually subitise larger numbers by subitising smaller groups within the number, e.g. sees six raisins on a plate as three and three	Understand mathematical statements up to 100 involving +, - and = signs.	Solve problems with Place Value	Compare and order numbers beyond 1,000	I know what each digit represents in numbers to 1,000,000	
Shows awareness that numbers are made up (composed) of smaller numbers, exploring partitioning in different ways with a wide range of objects		Identify numbers using different representations	Round any number to the nearest 10, 100 or 1000		
		Represent numbers in different ways	Solve problems with Place Value		
		Know roman numerals 1 – 12	Identify numbers using different representations		
			Represent numbers in different ways		
			Know roman numerals to 100		

Fractions						
EYFS	Y1	Y2	Y3	Y4	Y5	Y6
	Identify half and tell you what happens if you add two equal halves of a shape together.	Understand and explain what equivalent fractions are i.e. ½ and 2/4 .	Count up and down in tenths	Count up and down in hundreths	I can read and write numbers with up to 3 decimal places	I can tell you the value of each digit in a number given to 3 decimal places
	Identify quarters and tell you what happens if you add four equal quarters of a shape together.	Calculate half, one third and one quarter of numbers up to 100.	Divide objects into tenths	Divide into tenths	I can order and compare numbers with up to 3 decimal places	I can round an answer to a problem to a specified decimal accuracy e.g. to 1 decimal place
		Find fractions of shapes, groups and objects	Divide one-digit numbers by 10	Divide into hundreths	I can round decimals with 2 decimal places to the nearest whole number and to 1 decimal place	I can compare and order fractions, including improper fractions and mixed numbers
			Find and write fractions of a discrete set of objects	Find and write fractions of a discrete set of objects	I can recognise and use thousandths and relate them to tenths,	I can associate a fraction with division, using this to calculate a

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			hundredths and decimal equivalents	decimal equivalent of a simple fraction e.g. $\frac{3}{8} = 3 \div 8 = 0.375$
	Recognise and use fractions as numbers	Recognise and use fractions as numbers	I can write decimal numbers as fractions e.g. 0.71 = 71/100	I can simplify fractions, using the idea of common factors
	Recognise and use equivalent fractions with small denominators	Recognise and use equivalent fractions	I can compare and order fractions with denominators that are multiples of the same number	I can express fractions as equivalents with a common denominator, using the idea of common multiples
	Add fractions with the same denominator within one whole	Add fractions with the same denominator	I can identify and write equivalent fractions of a given fraction, including tenths and hundredths	I can add and subtract fractions with different denominators and mixed numbers, using equivalent fractions
	Subtract fractions with the same denominator within one whole	Subtract fractions with the same denominator	I can convert between mixed numbers and improper fractions	I can multiply simple pairs of proper fractions ($\frac{1}{4} \times \frac{1}{2} = {}^1/_8$)
	Compare unit fractions	Recognise and write decimal equivalents to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$	I can write fraction problem answers >1 as a mixed number e.g. $\frac{2}{5}+\frac{4}{5}=\frac{6}{5}=1\frac{1}{5}$	I can divide proper fractions by whole numbers (${}^1/_3 \div 2 = {}^1/_6$)
	Order unit fractions	Recognise decimal equivalents of tenths and hundredths	I can add and subtract fractions with the same denominator	I can recall and use equivalences between simple fractions, decimals and percentages, including solving problems
	Compare fractions with the same denominator	Divide 1 and 2 digit numbers by 10 and 100	I can add and subtract fractions where the denominators are multiples of the same number	I can calculate the percentage of a number e.g. 15% of 360
	Order fractions with the same denominator	Round decimals with 1dp to the nearest whole number	I can multiply proper fractions and mixed numbers by whole numbers supported by diagrams if needed	I can use percentages for comparison e.g. Rob got 15%, Annie got 24%, Kim got 28% - who got the most votes?
	Non-unit fractions	Compare numbers with the same number of decimal	I know that per cent relates to number of parts per hundred, writing	I can solve problems with measures using percentages e.g. I had

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		places up to 2 decimal places	percentages as a fraction with a denominator of 100 and as a decimal	200 ml and drank 50ml, what % did I drink?
	Solve problems with fractions	Solve simple measure and money problems involving fractions and decimals to 2 decimal places.	I know the percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $^1/_5$, $^2/_5$, $^4/_5$	

Ratio and Proportion/Algebra

EYFS	Y1	Y2	Y3	Y4	Y5	Y6
						RATIO & PROPORTION I can solve simple problems using proportion
						I can use ratio/scale factors to solve problems involving shape
						I can solve simple problems about unequal sharing/ratio
						ALGEBRA I can use simple formulae
						I can continue and describe linear number sequences
						I can write missing number problems algebraically e.g. $\square + 7 = 10$ written as $y + 7 = 10$
						I can find pairs of numbers that satisfy an equation with 2 unknowns e.g. if x + y = 12, what could x and y be?

Addition and Subtraction

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EYFS	Y1	Y2	Y3	Y4	Y5	Y6
In practical activities, adds one and subtracts one with numbers to 10	Understand the words add, total, sum and find the difference.	Mentally add two numbers that have tens and ones up to 100.	Mentally add a 3-digit number and ones	Use column addition to add numbers with up to 4 digits	I can add and subtract mentally with increasingly large numbers (using place value, number bonds/related facts, rounding and compensating, counting on, counting back..)	I can perform mental calculations, including large numbers and mixed operations
Begins to explore and work out mathematical problems, using signs and strategies of their own choice, including (when appropriate) standard numerals, tallies and "+" or "-"	Add 2 single digits up to 20.	Mentally add three single digit numbers.	Mentally add a 3-digit number and tens	Use column subtraction to subtract numbers with up to 4 digits	I can add and subtract whole numbers with more than 4 digits, using compact columnar addition and subtraction	I can solve addition and subtraction multi-step problems in contexts
	Add a single digit number to a 2-digit number up to 20.	Check my answers to missing number problems by using the inverse.	Mentally add a 3-digit number and hundreds	Estimate the answer to a calculation	I can use rounding and estimating to check if my answer is reasonable	I can identify prime numbers
[redacted]	Add 3 single digits up to 20.	Solve simple addition and subtraction word problems up to 100.	Use column addition to add numbers with up to 3 digits	Use the inverse to check any calculation	I can solve addition and subtraction multi-step problems	I can find common factors
[redacted]	Subtract a single digit from a 2-digit number up to 20.	Add two numbers that have tens and ones using objects, images and place value	Mentally subtract a 3-digit number and ones	Solve missing number problems	I can solve addition and subtraction problems involving decimals with up to 3 decimal places	I can find common multiples
[redacted]	Understand the words add, total, sum and find the difference.	Subtract two numbers that have tens and ones using objects, images and place value	Mentally subtract a 3-digit number and tens	Solve complex addition and subtraction problems	[redacted]	I can use BIDMAS (order of operations) to solve calculations using the four operations
[redacted]	Add 2 single digits up to 20.	Show that addition can be done either way but subtraction cannot	Mentally subtract a 3-digit number and hundreds	Choose which operations to use and explain why	[redacted]	[redacted]
[redacted]	Add a single digit number to a 2-digit number up to 20.	[redacted]	Use column subtraction to subtract numbers with up to 3 digits	[redacted]	[redacted]	[redacted]
[redacted]	Add 3 single digits up to 20.	[redacted]	Estimate the answer to a calculation	[redacted]	[redacted]	[redacted]
[redacted]	Subtract a single digit from a 2-digit number up to 20.	[redacted]	Use the inverse to check any calculation	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	Solve missing number problems	[redacted]	[redacted]	[redacted]

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Solve complex addition and subtraction problems

Multiplication and Division

EYFS	Y1	Y2	Y3	Y4	Y5	Y6
	Solve one-step times table and division problems up to 20 using objects, tables, charts and arrays with my teacher's help.	Write multiplication statements for x2, x3 x5, and x10 using the multiplication and equals signs.	Recall and use multiplication facts for the 3 times table	Recall and use division facts for the 3 times table	I can identify multiples of a given number	I can multiply 1-digit numbers with up to 2 decimal places by a 1-digit number using short multiplication
	Understand the x and ÷ sign.	Write division statements for x2, x3, x5, and x10 using the division and equals signs.	Recall and use multiplication facts for the 4 times table	Recall and use division facts for the 4 times table	I can find the factors of a number (including as factor pairs)	I can multiply numbers up to 4 digits (including decimals) by a 2 digit whole number, using long multiplication
	Tell you what halving and doubling are.	Solve multiplication problems using tables knowledge, arrays, repeated addition and number lines	Recall and use multiplication facts for the 8 times table	Recall and use division facts for the 8 times table	I can find common factors of 2 numbers	I can divide numbers up to 4 digits by a 2 digit whole number using long division
		Solve division problems using grouping, sharing, number lines and arrays		Multiply 2 digit number by a 1 digit number using place value counters	I know what a prime number, a prime factor and a composite (non-prime) number is	I can divide numbers up to 4 digits by a 2 digit whole number using short (bus-stop) division
		Show that multiplication can be done either way but division cannot		Multiply 2 digit number by a 1 digit number using known facts. I.e. 25 x 5 = 20 x 5 = 100 + 5 x 5 = 25 100 + 25 = 125	I can say whether a number up to 100 is prime and can recall prime numbers to 19	I can interpret my remainders as a remainder, fraction or by rounding, depending on context
				Divide a 2 digit number by a 1 digit number using place value counters	I can multiply numbers up to 4 digits by a 1 digit number, using grid or expanded vertical method	I can give answers to short & long division as a

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			decimal with up to 2 decimal places
	Use grouping for dividing	I can multiply numbers up to 4 digits by a 1 digit number, using compact (short multiplication) method	
	Solve problems for multiplication and division	I can multiply numbers up to 4 digits by a 2 digit number, using grid or expanded vertical method	
	Positive integer scaling problems	I can multiply numbers up to 4 digits by a 2 digit number, using long multiplication method	
	Correspondence problems	I can divide numbers up to 4 digits by a 1 digit number using short division	
		I can interpret remainders appropriately for the problem I am solving	
		I can multiply whole numbers and decimals by 10, 100 & 1000	
		I can divide whole numbers by 10, 100 & 1000, including giving a decimal answer	
		I know the notation for and can calculate square (^{2}) and cube (^{3}) numbers	
		I can solve problems using add, subtract, multiply and divide, including using what the equals sign means to help	
		I can solve problems involving multiply and divide, using knowledge of multiples/factors/squares/scaling/simple ratio	

Shape, Space and Measures						
EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Enjoys tackling problems involving prediction and discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy	Measure lengths and heights and write my results in centimetres and metres.	Estimate and measure length and height, mass, temperature and capacity to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.	Measure length in mm, cm, M	Convert M to cm and visa versa	Name and describe 2-D shapes, by the number of sides, right angles and symmetry.	Make my own symmetrical shapes by drawing lines using a ruler.
Becomes familiar with measuring tools in everyday experiences and play	Measure mass and weights and write my results in grams and kilograms	Read scales to the nearest numbered unit.	Add and subtract lengths	Convert cm to mm and visa versa	Name and describe 3-D shapes, by the number of edges, vertices, faces and right angles.	Describe the amount of turn using right angles for quarter, half and three quarter turns

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						(clockwise and anti-clockwise), and movement in a straight line.
Is increasingly able to order and sequence events using everyday language related to time	Measure capacity and volume and write my results in millilitres, litres and cubes.	Understand 0°C and 100°C and estimate the outside room temperature.	Measure the perimeter of a 2D shape	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Make different nets for cubes and cuboids.	Make a block diagram, tally and pictograms & ask and answer questions about them.
Beginning to experience measuring time with timers and calendars	Measure how long things take and write my results in minutes, seconds and hours.	Tell and write the time to five minutes, and draw the hands on a clock face to show these times.	Compare lengths	Find the area of rectilinear shapes by counting squares	[redacted]	Ask and answer questions about the information in a simple table.
Uses spatial language, including following and giving directions, using relative terms and describing what they see from different viewpoints	Tell you the difference between days, months and years in the date.	Compare and sequence intervals of time.	Measure mass in g and kg	Estimate and compare different lengths	[redacted]	[redacted]
Investigates turning and flipping objects in order to make shapes fit and create models; predicting and visualising how they will look (spatial reasoning)	Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	Add and subtract amounts up to £50 and work out the change from £5.	Add and subtract mass	Convert KG to g and visa versa	[redacted]	[redacted]
May enjoy making simple maps of familiar and imaginative environments, with landmarks	Identify cuboids, cubes, pyramids and spheres.	Make different amounts of money using the correct coins.	Compare mass of objects	Estimate and compare different masses	[redacted]	[redacted]
Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes	Describe things which are either top, bottom, middle, next to and directions.		Compare volume	Convert L to ml and visa versa	[redacted]	[redacted]
Enjoys composing and decomposing shapes, learning which shapes combine to make other shapes	Describe things which have made half, quarter and three-quarter turns.	[redacted]	Measure volume using ml and litres	Estimate and compare different capacities	[redacted]	[redacted]
Uses own ideas to make models of increasing complexity, selecting blocks needed, solving problems and visualising what they will build	[redacted]	[redacted]	Compare volume	Measure temperature using degrees centigrade	[redacted]	[redacted]

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Spots patterns in the environment, beginning to identify the pattern "rule"	Measure volume using ml and litres	Read scales on thermometers
Chooses familiar objects to create and recreate repeating patterns beyond AB patterns and begins to identify the unit of repeat	Measure temperature using degrees centigrade	Convert between pounds and pence
	Read scales on thermometers	Find the difference with money
	Find the total and difference with money	Estimate and compare amounts of money
	Find change from a given amount	Tell the time to a minute
	Solve two-step problems involving money	Tell the time on a digital clock
	Tell and write the time from an analogue clock	Write the time from an analogue clock with roman numerals
	Tell and write the time from a clock with roman numerals	Convert time between analogue and digital 12 and 24-hour clocks
	Tell the time to the nearest five minutes (minutes to)	Convert hours to minutes and visa versa
	Tell and write the time from a digital clock	Convert minutes to seconds and visa versa
	Know how many seconds in a minute, minutes in an hour and hours in a day	Convert years to months and visa versa
	Compare durations of time – seconds, minutes and hours	Convert weeks to days and visa versa
	Know the number of days in each month, year and leap year	Compare durations of time – seconds, minutes and hours
		Know the number of days in each month, year and leap year
		Classify and compare geometric shapes
		Identify acute angles

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Identify obtuse angles
Compare and order angles up to 2 right angles by size
Identify lines of symmetry in 2-D shapes presented in different orientations