

Queens' Federation Termly Progression in Maths – Year 4

Objective	Autumn	Spring	Summer
Number – number and place value			
count in multiples of 6, 7, 9, 25 and 1000	Count in multiples of 25, 1000 forwards and backwards.	Count in multiples of 6,9 forwards and backwards.	Count in multiples of 7 forwards and backwards.
find 1000 more or less than a given number	find 1000 more or less than a given number		
count backwards through zero to include negative numbers			count backwards through zero to include negative numbers
recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	
order and compare numbers beyond 1000		order and compare numbers beyond 1000	
identify, represent and estimate numbers using different representations	Use arrays and other informal notation to solve the above problems.		
round any number to the nearest 10, 100 or 1000	round any number to the nearest 10, 100	round any number to the nearest 10, 100	round any number to the nearest 10, 100 or 1000
solve number and practical problems that involve all of the above and with increasingly large positive numbers	Number and practical problems on the above	Number and practical problems on the above	Number and practical problems on the above
read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	Read Roman numerals to 10 (X), and know that over time, the numeral system changed to include the concept of zero and place value.	Read roman numerals to 50 (L), and know that over time, the numeral system changed to include the concept of zero and place value.	Read Roman numerals to 100 (C), and know that over time, the numeral system changed to include the concept of zero and place value.
Number – addition and subtraction			
add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	add and subtract numbers with up to 3 digits using the formal written methods of columnar addition and subtraction where appropriate	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
estimate and use inverse operations to check answers to a calculation	Estimate the answer to addition and subtraction calculations.	Use inverse operations to check answers to a calculation.	estimate and use inverse operations to check answers to a calculation
solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction one step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction one step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Number – multiplication and division			

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recall multiplication and division facts for multiplication tables up to 12×12	recall multiplication and division facts for 2,5,10	recall multiplication and division facts for 3,6,9,	recall multiplication and division facts for 4,8,12,7
use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	Use facts for 2,5,10 x table to derive other facts (e.g. $5 \times 5 = 25$ means $50 \times 50 = 2500$). Multiply by 1 and 0.	Use facts for 3,6,9 10 x table to derive other facts. Divide by 1 and 0	multiplying together three numbers
recognise and use factor pairs and commutativity in mental calculations	recognise and use factor pairs and commutativity in mental calculations of 2, 5, 10	recognise and use factor pairs and commutativity in mental calculations of 3,6,9	recognise and use factor pairs and commutativity in mental calculations of 4,8,12,7
multiply two-digit and three-digit numbers by a one-digit number using formal written layout		multiply two-digit digit numbers by a one-digit number using formal written layout	multiply two-digit and three-digit numbers by a one-digit number using formal written layout
solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.		solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit (e.g. partitioning in multiplication)	integer scaling problems and harder correspondence problems such as n objects are connected to m objects. (Word problems related to addition, multiplication-e.g. three school meals, three puddings how many different meals could there be?)
Number – fractions (including decimals)			
recognise and show, using diagrams, families of common equivalent fractions	recognise and show, using diagrams, families of fractions equivalent to $\frac{1}{2}$		
count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten		count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	
solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	solve problems involving increasingly harder fractions to calculate quantities of shape		solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
add and subtract fractions with the same denominator	add fractions with the same denominator to make a whole	add and subtract 10ths and 100ths fractions with the same denominator	
recognise and write decimal equivalents of any number of tenths or hundredths		recognise and write decimal equivalents of any number of tenths or hundredths	

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recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$			recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$
find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths		find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	
round decimals with one decimal place to the nearest whole number			round decimals with one decimal place to the nearest whole number
compare numbers with the same number of decimal places up to two decimal places		compare numbers with the same number of decimal places up to two decimal places (2dp money)	compare numbers with the same number of decimal places up to two decimal places
solve simple measure and money problems involving fractions and decimals to two decimal places			solve simple measure and money problems involving fractions and decimals to two decimal places
Measurement			
Convert between different units of measure [for example, kilometre to metre; hour to minute]	Convert between different units of measure(time)	Convert between different units of measure (metres and Kilometres)	Convert between different units of measure (capacity)
measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres		
find the area of rectilinear shapes by counting squares		find the area of rectilinear shapes by counting squares	
estimate, compare and calculate different measures, including money in pounds and pence		estimate, compare and calculate different measures, including money in pounds and pence (money)	
read, write and convert time between analogue and digital 12- and 24-hour clocks	Read and write analogue clock	Read and write digital clock	read, write and convert time between analogue and digital 12- and 24-hour clocks
solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.		solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
Geometry – properties of shapes			

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compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes		
identify acute and obtuse angles and compare and order angles up to two right angles by size		identify acute and obtuse angles and compare and order angles up to two right angles by size	
identify lines of symmetry in 2-D shapes presented in different orientations	identify lines of symmetry in 2-D shapes presented in different orientations		
complete a simple symmetric figure with respect to a specific line of symmetry	complete a simple symmetric figure with respect to a specific line of symmetry		
Geometry – position and direction			
describe positions on a 2-D grid as coordinates in the first quadrant	describe positions on a 2-D grid as coordinates in the first quadrant		
describe movements between positions as translations of a given unit to the left/right and up/down			describe movements between positions as translations of a given unit to the left/right and up/down
plot specified points and draw sides to complete a given polygon	plot specified points and draw sides to complete a given polygon		
Statistics			
interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	interpret discrete data using appropriate graphical methods, including bar charts and time graphs	present discrete data using appropriate graphical methods, including bar charts and time graphs	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs