

Queens' Federation Termly Progression in Maths – Year 3

Objective	Autumn	Spring	Summer
Number – number and place value			
count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	(consolidate Year 2 –counting in multiples of 2, 3, 5 10) Count forward and back in 10s Count in multiples of 4	Count forward and back in 100s Count in multiples of 50 and 100	Count in multiples of 8
recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
compare and order numbers up to 1000	Using > , < and = to compare and order up to 100	Using > , < and = to compare and order up to 500	Using > , < and = to compare and order up to 1000
identify, represent and estimate numbers using different representations	Number lines, arrow cards, jottings, dienes, measures	Number lines, arrow cards, jottings, dienes, arrays, measures	Number lines, arrow cards, jottings, dienes, arrays, measures
read and write numbers up to 1000 in numerals and in words	read and write numbers up to 50 in numerals and in words	read and write numbers up to 100 in numerals and in words	read and write numbers up to 100 in numerals and in words
solve number problems and practical problems involving these ideas	Balance number sentences, missing numbers, code breaking, word problems	Balance number sentences, missing numbers, code breaking, word problems	Balance number sentences, missing numbers, code breaking, word problems
Number – addition and subtraction			
add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds	add and subtract numbers mentally, including a three-digit number and ones	add and subtract numbers mentally, including a three-digit number and tens,	add and subtract numbers mentally, including, a three-digit number and hundreds
add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	Partitioning	Partitioning	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
estimate the answer to a calculation and use inverse operations to check answers	Find the answer to a calculation and use inverse operations to check answers	Find and estimate the answer to a calculation and use inverse operations to check answers	Find and 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	Number fact quizzes Place value problems	Number fact quizzes Place value problems	Number fact quizzes Place value problems More complex addition and subtraction

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Number – multiplication and division			
recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Number fact quizzes – 3 and 4 times tables	Number fact quizzes - 4 times tables Understanding relationship between multiplication and division.	Number fact quizzes - 8 times tables Understanding relationship between 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	write and calculate mathematical statements for multiplication using the multiplication tables that they know, including for one-digit numbers times one-digit numbers, using mental methods	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 visual methods (array)	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 grid method and consolidating array
solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects			
Number – fractions			
count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10	recognise that tenths arise from dividing an object into 10 equal parts	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts	count up and down in tenths; 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	Fractions of shapes – unit fractions	Fractions of shapes –non- unit fractions	Fractions of shapes –non- unit fractions
recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators		Fractions of amounts – unit fractions	Fractions of amounts – non- unit fractions
recognise and show, using diagrams, equivalent fractions with small denominators		recognise and show, using diagrams, equivalent 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 [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]			add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]

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compare and order unit fractions, and fractions with the same denominators			compare and order unit fractions, and fractions with the same denominators
solve problems that involve all of the above		solve problems that involve all of the above unit fractions	solve problems that involve all of the above non-unit fractions
Measurement			
measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	measure, compare, add and subtract: lengths (m/cm/mm);	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g);	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
measure the perimeter of simple 2-D shapes	measure the perimeter of simple 2-D shapes- whole numbers	measure the perimeter of simple 2-D shapes – and mm	measure the perimeter of simple 2-D shapes –and mm
add and subtract amounts of money to give change, using both £ and p in practical contexts	Change from multiples of 10	Change from 50 p	Change from £5
tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	tell and write the time from an analogue clock, and 12-hour	tell and write the time from an analogue clock, including using, and 12-hour and 24-hour clocks	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight	estimate and read time with increasing accuracy to the nearest quarter and half an hour; use vocabulary such as o'clock, morning, afternoon, noon and midnight	estimate and read time with increasing accuracy to the nearest 5 minutes; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight	estimate and read time with increasing accuracy to the nearest minute; compare time in terms of seconds, minutes and hours use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight
know the number of seconds in a minute and the number of days in each month, year and leap year	know the number of seconds in a minute	know the number of seconds in a minute	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]		Begin to compare durations of events [for example to calculate the time taken by particular events or tasks]	compare durations of events [for example to calculate the time taken by particular events or tasks]
Geometry – properties of shapes			
draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them

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recognise angles as a property of shape or a description of a turn		recognise angles as a property of shape or a description of a turn	
identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle		identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle	identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle
identify horizontal and vertical lines and pairs of perpendicular and parallel lines	identify horizontal and vertical lines	identify horizontal and vertical lines and pairs of perpendicular and parallel lines	identify horizontal and vertical lines and pairs of perpendicular and parallel lines
Statistics			
interpret and present data using bar charts, pictograms and tables	interpret and present data using bar charts, pictograms	interpret and present data using bar charts, pictograms and tables	interpret and present data using bar charts, pictograms and tables
solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	solve one-step [for example, 'How many more?' and 'How many fewer?'] using information presented in pictograms	solve one-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.