LTP 3 Year Rolling Programme- Maths- Steps 13-18

Grange Academy
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Pupil's baseline data will provide a starting point each term. Pupils are expected to build upon that baseline throughout the term.

Year 1 | **Term 1:** | **Term 2:** | **Term 3:**

FOCUS

Skills and Knowledge

Half Term 1

Place Value

Step 13		Step 14		Step 15	
I can read and write numbers up to 100 in words	EL2	I can recognise place value in two-digit number (tens ones)	EL2	I can compare and Order numbers up to 100 using < > =	EL2
I can count forwards and backwards through 100.	EL2	I can partition a number upto 100 (Standard and Non-standard)	EL2	I can count in steps of 10 from any number forwards and backwards.	EL2
I can represent a number using base ten or other concrete objects	EL2	I can estimate numbers up to 100 using different representations including the number line	EL2	I can round numbers less than 100 to the nearest 10	EL2
I can count objects to 100 by making/recognising groups of 10.	EL2	I can recognise odd and even numbers	EL2	I can explain why a number is odd or even	EL2
I can identify and represent numbers up to 100 using different representations including the number line and place value charts.	EL2	I can recall and use multiplication facts for 2, 5 and 10	EL2	I can count from 0 in steps of three	EL2
I can count from 0 in steps of two	EL2	I can count from 0 in steps of five	EL2	I can recall and use division facts for 2, 5 and 10	EL2

Step 16		Step 17		Step 18	
I can read and write numbers up to 1,000	EL3	I can order and compare numbers up to 1,000	EL3	I can place a number up to 1000 on a number line.	EL3
I can identify and represent numbers using different representations.	EL3	I understand that 10 tens are equivalent to 1 hundred and that 100 is 10 times the size of 10.	EL3	I can work out how many 10s there are in three-digit multiples of 10.	EL3
I can recognise place value in numbers upto 1000 (hundreds, tens, ones)	EL3	I can partion a 3 digit number using standard and non standard partitioning.	EL3	I can identify the previous and next mulitple of 10 (within 1000)	EL3
I can find 1, 10 or 100 more or less than a given number (within 1000)	EL3	I can count in 4s and 8s from 0 and recognise the pattern of these multiples.	EL3	I can round numbers less than 1,000 to the nearest 10	EL3
I can recgnise, use and apply my ability to count in 2, 3, 5 and 10.	EL3	I can count in 50s and 100s from 0 and recognise the pattern of these multiples.	EL3	I can identify the previous and next mulitple of 100 (within 1000)	EL3
	EL3		EL3	I can round numbers within 1,000 to the nearest 100	EL3

Multiplication and Division

Step 13		Step 14		Step 15	
I can recognise and make equal groups.	Entry Level 2	I can recall and use the two times table.	Entry Level 2	I can solve multiplication using repeated addition.	Entry Level 2
I can add equal groups.	Entry Level 2	I can divide by 2. (upto 24÷2)	Entry Level 2	I can multiply single digit whole numbers.	Entry Level 2
I can recognise and name the x symbol.	Entry Level 2	I understand the terms 'double' and 'halve'.	Entry Level 2	I can interpret a real life problem involving multiplication and write the coresponding number sentence.	Entry Level 2
I can identify a multiplication number sentence from an array.	Entry Level 2	I can find double and half (upto 12x2/24÷2)	Entry Level 2	I can solve a real life problem involving single digit multiplication.	Entry Level 2
I can make equal groups of concrete objects by 'grouping'.	Entry Level 2	I understand that even numbers can be divided by 2 and odd numbers cannot.	Entry Level 2		
I can make equal groups of concrete objects by 'sharing'.	Entry Level 2	I can recall and use the ten times table.	Entry Level 2		
I can recognise and name the + symbol.	Entry Level 2	I can divide by 10. (upto 120÷10)	Entry Level 2		
		I can recall and use the five times table.	Entry Level 2		
		I can divide by 5. (upto 60÷5)	Entry Level 2		
		I can make links between the 5 and 10 times tables.	Entry Level 2		

Step 16		Step 17		Step 18	
I can identify and use multiples of 2	Entry Level 3	I can find multiples of 10 (beyond 12x10)	Entry Level 3	I can divide a 2 digit number by a one digit number (with exchange/flexible partitioning)	Entry Level 3
I can identify and use multiples of 5 and 10.	Entry Level 3	I can use related multiplication facts. (4x2=8 40x2=80)	Entry Level 3	I can divide a 2 digit number by a one digit number (with remainders)	Entry Level 3
I can identify if a division questions requires grouping or sharing.	Entry Level 3	I can multiply a 2-digit number by a 1-digit number (No Exchange).	Entry Level 3	I can solve problems that require 2 digit by a one digit number division.	Entry Level 3
I can recall and use the three times table.	Entry Level 3	I can multiply a 2-digit number by a 1-digit number (with exchange).	Entry Level 3	I can use the inverse operation to find a missing number (x/÷)	Entry Level 3
I can divide by 3. (upto 36÷3)	Entry Level 3	I can solve problems that require 2 digit x 1 digit multiplication.	Entry Level 3		
I can recall and use the four times table.	Entry Level 3				
I can divide by 4. (upto 48÷4)	Entry Level 3				
I can recall and use the eight times table.	Entry Level 3				
I can divide by 8. (upto 96÷8)	Entry Level 3				
I can make connections between the 2, 4 and 8 times tables.	Entry Level 3				

Money

Step 13- Year 2		Step 14- Year 2		Step 15- Year 2	
I can count coins in pence.	Entry Level 2	I can count money in pounds and pence.	Entry Level 2	I can make £1 using two amounts of money.	Entry Level 2
I can count in coins and notes in pounds.	Entry Level 2	I can use coins and notes to make amounts of money in different ways.	Entry Level 2	I can convert pounds to pence.	Entry Level 2
I can make amounts of money upto £2 using coins.	Entry Level 2	I can use £5, £10 and £20 notes to make amounts of money in multiples of £5.	Entry Level 2	I can convert pence to pounds.	Entry Level 2
I can compare amounts of money.	Entry Level 2	I can appreciate the purchasing power of amounts of money (coins) e.g. If I had a £2 coin, would I have enough to buy a can of pop? If I had a £2 coin, would I have enough to buy a computer?	Entry Level 2	I can calculate with amounts of money in pence upto £1 and with whole pounds upto £100.	Entry Level 2
				I can work out change for amounts in pence upto £1 and whole pounds upto £100.	Entry Level 2

Step 16- Year 3		Step 17- Year 3		Step 18- Year 3	
I can appreciate the purchasing power of amounts of money (notes)	Entry Level 3	I can add amounts of money.	Entry Level 3	I can use decimal notation for money	Entry Level 3
I can exchange notes for an equivilvent value in coins. (Show how can you make £5 using only silver coins)	Entry Level 3	When calculating I can exchange 100p for £1.	Entry Level 3	I can interpret a calculator display (4.2 = £4.20)	Entry Level 3
I can write amounts of money using the notation £__ and __p.	Entry Level 3	I can subtract amounts of money.	Entry Level 3	I can solve problems involving money, including finding change.	Entry Level 3

Statistics

Step 13		Step 14		Step 15	
I can sort and classify objects using more than one criterion.	EL2	I can create block diagrams.	EL2	I can create a pictogram (1 picture = 1 item)	EL2
I can collect information by survey.	EL2	I can interpret block diagrams.	EL2	I can interpret a pictogram (1 picture = 1 item)	EL2
I can create a tally chart.	EL2				
I can interpret information from a tally chart.	EL2				
I can record information in a table.	EL2				

Step 16		Step 17		Step 18	
I can complete a frequency table given the original list of results.	EL3	I can interpret a pictogram where one picture represents more than one item.	EL3	I can interpret bar charts with vertical axis scaled in ones and twos.	EL3
I can complete a tally chart and the resulting frequency table.	EL3	I can construct a pictogram where one picture represents more than one item.	EL3	I can construct bar charts with vertical axis scaled in ones and twos.	EL3
				I can extract numerical information from lists, tables, diagrams and charts.	EL3
				I can compare two or more diagrams.	EL3
				I can solve one and two step problems based on statisical information.	EL3

Half Term 2

Addition and Subtraction

Step 13		Step 14		Step 15	
I can add multiples of 10 to make 100. (10+90=100)	EL2	I can subtract a 1 digit number from a 2 digit number. (across a 10)	EL2	I can add 2 two digit numbers with a total up to 100 (with an exchange).	EL2
I can add and subtract multiples of 1 within 100.	EL2	I can add and subtract 10s.	EL2	I can subtract a 2 digit number from a 2 digit number (with an exchange)	EL2
I can add 3 1-digit numbers.	EL2	I can add 2 two digit numbers with a total up to 100 (No exchange).	EL2	I can use place value and number facts to solve number problems.	EL2
I can add to reach the next multiple of 10. (23+__=30)	EL2	I can subtract a 2 digit number from a 2 digit number (No exchange)	EL2	I can use and interpret +, - and = in reallife situations for solving problems.	EL2
I can add across a multiple of 10. (18+4=)	EL2	I can represent and use addition number bonds to 100.	EL2	I can solve a missing number problem within 100	EL2
I can subtract across a multiple of 10. (22-4=)	EL2			I can represent and use the related subtraction to number bonds to 100.	EL2
I can subtract ones from a multiple of 10. (20-7=)	EL2				

Step 16		Step 17		Step 18	
I can add and subtract 1s, 10s and 100s from any 3 digit number.	EL3	I can add 2 three digit numbers with a total up to 1000 (Across a 100).	EL3	I can add 2 three digit numbers with a total up to 1000 (with more than one exchange).	EL3
I can spot the pattern when adding multples of 1, 10 and 100 (222+6=___ 222+60=___ 222+600=	EL3	I can subtract a 3 digit number from a 3 digit number (Across/exchange a 10)	EL3	I can subtract a 3 digit number from a 3 digit number (with more than one exchange)	EL3
I can add and subtract 10s across a multiple of 100.	EL3	I can subtract a 3 digit number from a 3 digit number (Across/exchange a 100)	EL3	I can add 2 and 3 digit numbers.	EL3
I can add 1s or 10s and 100s to any three digit number mentally. (231+3= 231+30= 231+300=)	EL3	I can solve number and practical problems using numbers up to 1000.	EL3	I can subtract a two digit number from a three digit number.	EL3
I can subtract 1s or 10s and 100s to any three digit number mentally. (239-3= 239-30= 239-100=)	EL3	I can show that addition is commutative and subtraction is not.	EL3	I can use and interpret +, - and = in reallife situations for solving problems.	EL3
I can add 2 three digit numbers with a total up to 1000 (No exchange).	EL3	I can accurately estimate large amounts.	EL3	I can solve problems, including missing number problems using previous knowledge (+, -)	EL3
I can subtract a 3 digit number from a 3 digit number (No exchange)	EL3		EL3	I can estimate an answer to a calculation and then use the inverse to check the answer.	EL3

Fractions

Step 13		Step 14		Step 15	
I understand the terms 'part' and 'whole'.	Entry Level 2	I can recognise and find a third of a shape.	Entry Level 2	I can work out the whole,	Entry Level 2
I can identify equal and unequal groups.	Entry Level 2	I can recognise and find a third of a quantity up to 24 .	Entry Level 2	I can recognise the equivilence of 1/2 and 2/4.	Entry Level 2
I can recognise and find a quarter of a shape.	Entry Level 2	I can work out one third of a number up to 24.	Entry Level 2	I can find and recognise three quarters.	Entry Level 2
I can recognise and find a quarter of a quantity up to 24 .	Entry Level 2	I can count in steps of one third.	Entry Level 2	I can work out two, three or four times the size of a given amount.	Entry Level 2
I can work out one quarter of a number up to 24.	Entry Level 2				
I can count in steps of one half.	Entry Level 2				
I can count in steps of one quarter.	Entry Level 2				

Step 16		Step 17		Step 18	
I understand the denominators of unit fractions.	Entry Level 3	I can find equivilent fractions using number lines.	Entry Level 3	I can add fractions with the same denominator within one whole.	Entry Level 3
I can compare and order unit fractions.	Entry Level 3	I can find equivilent fractions using multiplication and division.	Entry Level 3	I can subtract fractions with the same denominator within one whole.	Entry Level 3
I understand the numerators of non-unit fractions.	Entry Level 3	I can work out unit fractions (up to one tenth) of a number up to 100.	Entry Level 3	I can work out amounts 5, 8 or 10 times the size of a given amount.	Entry Level 3
I can order and compare non-unit fractions.	Entry Level 3	I can work out any number of thirds, quarters, fifths and tenths of a quantity.	Entry Level 3		
I understand that fractions show parts of a whole.	Entry Level 3	I can work out any number of thirds, quarters, fifths and tenths of a number.	Entry Level 3		
I can identify and locate fractions on a number line.	Entry Level 3				

Time

Step 13		Step 14		Step 15	
I can name the months of the year and can put them in order.	Entry Level 2	I can tell the time to the nearest quarter.	Entry Level 2	I can tell the time to the nearest five minutes.	Entry Level 2
I can name the seasons and can put them in order.	Entry Level 2	I can draw the hands on a clock to the nearest quarter.	Entry Level 2	I can draw hands on a clock to the nearest five minutes.	Entry Level 2
I can tell the time to the nearest half hour on a digital clock.	Entry Level 2	I can tell the time to the nearst quarter on a digital clock.	Entry Level 2	I can tell the time to the nearest five minutes on a digital clock.	Entry Level 2
I can find the difference in times given in hours.	Entry Level 2	I can find the difference in times given in half hours.	Entry Level 2	I can find the difference in times given in quarter hours.	Entry Level 2
				I know that 1 week = 7 days; 1 day = 24 hours; 1 hour = 60 minutes; 1 minute = 60 seconds.	Entry Level 2

Step 16		Step 17		Step 18	
I know that there are 365 days in a year, 366 days in a leap year.	Entry Level 3	I can use a calendar to location a day/date.	Entry Level 3	I can solve problems involving time.	Entry Level 3
I know that there are 52 full weeks in a year.	Entry Level 3	I can write the date correctly (DD/MM/YYYY)	Entry Level 3	I can find the difference in times given to the nearest five minutes.	Entry Level 3
I can tell ttime to the nearest five minutes on a clock that using Roman Numerals.	Entry Level 3	I understand the 12 hour and 24 hour clock systems.	Entry Level 3	I can convert between hours, minutes and seconds.	Entry Level 3
		I can convert between 12 hour and 24 hour times.	Entry Level 3	I can add up to three lengths of time given in minutes and hours.	Entry Level 3

Shape

Step 13 -		Step 14 -		Step 15 -	
I can recognise and name pentagons, hexagons and octagons.	EL2	I can describe the properties of a 2D shape (vertices and sides- including straight sides and curved sides)	EL2	I can describe turns with full, half and quarter.	EL2
I can identify a right angle triangle (from a set of triangles)	EL2	I can describe the properties of a 3D shape (faces, vertices and edges)	EL2	I can compare shapes- reasoning about the similiarities and differences in properties.	EL2
I can recognise and name cuboids, pyramids and spheres.	EL2		EL2		EL2

Step 16-		Step 17-		Step 18 -	
I can recognise and name prisms, cylinders and cones.	EL3	I can identify a right angle in a polygon.	EL3	I can draw polygons on a grid and/or by joining marked points.	EL3
I can make 3D shapes using physical resources and/or nets.	EL3	I can identify whether an angle is less or more than a right angle.	EL3	I can describe direction or position on a map with North, South, East and West.	EL3
I can recognise and draw nets of cubes and cuboids.	EL3	I can recognise horizontal, vertical and parallel lines.	EL3	I can describe the position of a point on a grid by its coordinates, or identify a point given its coordinates.	EL3
	EL3	I can draw lines of symmetry on shapes and pictures.	EL3		EL3

Measure

Step 13 - Year 2 L and P, M, C and T		Step 14 - Year 2 L and P, M, C and T		Step 15 - Year 2 L and P, M, C and T	
I can measure in centimetres. (Practically and pictorially)	EL2	I can draw a length in centimetres using a ruler	EL2	I can choose a possible length, weight or capacity for a given item.	EL2
I can measure in metres. (Practically and pictorially)	EL2	I can draw a length in metres using a metre stick.	EL2	I can estimate the length, weight or capacity of given items.	EL2
I can measure in grams. (Reading a scale practically and pictorially)	EL2	I can choose an appropirate unit of length, weight or capacity. (e.g. a pencil is 16 ____ long)	EL2		EL2
I can measure in kilograms. (Reading a scale practically and pictorially)	EL2	I can compare lengths, heights and weights in the same unit.	EL2		EL2
I can measure in millimetres. (Reading a scale practically and pictorially)	EL2				

Step 16- Year 3 L and P, M and C		Step 17- Year 3 L and P, M and C		Step 18 - Year 3 L and P, M and C	
I can measure in metres and centimetres.(e.g. the line is 2m and 10cm long)	EL3	I can convert between metres and centimeres.	EL3	I can add and subtract using length, weight and capacity .	EL3
I can measure in kilograms and grams. (e.g. the cake weighs 1kg and 200g.)	EL3	I can convert between kilograms and grams.	EL3	I can calculate the perimeter of a simple shape.	EL3
I can measure in litres and millilitres. (e.g. the jug contains 2 litres and 500ml or water)	EL3	I can convert between litres and millilitres.	EL3	I can read the temperature on a thermometer, including negative values	EL3
I can choose an appropriate instrument for measuring.	EL3	I can compare and order lengths, heights and weights in the different standard units. (e.g. Compare 120cm and 1.4m)	EL3	I can compare and order temperatures.	EL3
I can read values from scales (e.g. ruler, jug, weighing scales)	EL3		EL3		EL3