



Victoria Lane Academy Maths MTP / LTP – Year 5



Throughout the year children should be taught the following and constantly revisited to build fluency
***Count in multiples of all times tables**

Autumn 1

Place Value	3 weeks	I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
		I can read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
		I can count forwards or backwards in steps of powers of 10 for any given number up to 1000 000
		I can round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000
Addition Subtraction	2 weeks	I can add and subtract whole numbers with more than 4 digits, including using formal written methods
		I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
Multiplication and division	2 weeks	I can multiply up to 4 digits by a one or two-digit number using formal written methods
		I can divide numbers up to 4 digits by a one-digit number using formal written methods and interpret remainders appropriately for the context
		I can solve problems involving multiplication and division

Autumn 2

Fractions	3 weeks	I can find fractions of quantities
		I can identify, name and write equivalent fractions of a given fractions, including tenths and hundredths
		I can compare and order fractions whose denominators are all multiples of the same number
		I can add and subtract fractions with the same denominator and multiples of the same number
Measure	3 weeks	I can multiply numbers including decimals by 10, 100 and 1000
		I can convert between different units of metric measure
		I can read, write and convert time between analogue and digital 12 and 24 hour clocks
Shape	2 weeks	I know that angles are measured in degrees: I can estimate and compare acute, obtuse and reflex angles
		I can identify angles at a point and one whole turn (360), angles at a point and on a straight line and $\frac{1}{2}$ a turn (180) and other multiples of 90
		I can draw given angles, and measure them in degrees
		I can use the properties of rectangles to deduce related facts and find missing lengths and angles

Spring 1

Pre assessment on previous learning of place value from Autumn 1 - Check they can do it

PV	3 Weeks	I can recognise thousandths and relate them to tenths and hundredths.
		I can order and compare decimals up to 3dp
		I can round decimals with two decimal places to the nearest whole number and to one decimal place
		I can read roman numerals up to 1000 and recognise years in Roman numerals

+ -	1 week	I can solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use
		I can use rounding to check answers to calculations and determine levels of accuracy
X ÷	2 weeks	I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
		I know and can use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
		I can establish whether a number up to 100 is prime and recall prime numbers up to 19

Spring 2

X ÷	1 week	I can recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
Fractions	3 weeks	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number
		I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
		I can recognise the per cent symbol (%) and understand that per cent relates to “number of parts per hundred”, and write percentages as a fraction with denominator 100 as a decimal fraction
Measure	3 weeks	I can calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes (also included in measuring)
		I can estimate volume (e.g. using 1 cm^3 blocks to build cubes and cuboids) and capacity (e.g. using water)
		I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

Summer 1

PV	2 weeks	I can solve number problems and practical problems that involve all of the above Consolidation
+ -	1 week	I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
X ÷	2 weeks	I can solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes
		I can solve problems involving multiplication and division and a combination of these, including understanding the meaning of the equals sign

Summer 2

Stats	2 weeks	I can complete, read and interpret information in tables, including timetables
		I can solve problems using information presented in a line graph
Shapes	2 weeks	I can identify 3D shapes from 2D representations
		I can identify, describe and represent the position of a reflection or translation using the appropriate language, and know that the shape has not changed

Problem Solving	2 weeks	<p>Solve problems involving numbers up to three decimal places</p> <p>Solve problems which require knowing percentage and decimal equivalents</p> <p>Use all four operations to solve problems involving measure (Length, mass, volume, money)</p> <p>solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</p> <p>solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</p>
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