Mathematics at Westlea

Key Targets for each year group



YEAR 1 (age 5-6 years old)		
Number System	Mental Maths	Calculations
Read and write numbers to 100 in numerals	Count to and across 100 , forwards and backwards, from any given number	Represent and use addition and subtraction facts within 20
Given a number, identify one more and one less	Count in multiples of twos, fives and tens	Add and subtract one-digit and two-digit numbers to 20, including zero
Represent numbers using objects and pictures including the number line	Instant recall of number pairs to 10	Solve addition and subtraction problems,
Use the language of: equal to, more than, less than (fewer), most, least	Recall addition and subtraction facts to 10 fluently	using concrete objects and pictorial representations
Read and write numbers 1 to 20 in words	Know the doubles of numbers to 10 + 10	Solve missing number problems such as $7 = \Box - 9$
Recognise a half as one of two equal parts of an object, shape or quantity	Recognise and know the value of different denominations of coins and notes	Share objects into equal groups and count how many in each group.
Recognise a quarter as one of four equal parts of an object, shape or quantity	Know the days of the week and the months of the year	
	Tell the time to the hour and half past the hour	

YEAR 2 (age 6-7 years old)		
Number System	Mental Maths	Calculations
Read and write numbers to at least 100 in numerals and in words	Instant recall of 2x, 5x & 10x tables	Add together two 2-digit numbers
Count in steps of 2, 3 and 5 from 0	Recall division facts for 2x, 5x & 10x tables	Find the difference between two 2-digit numbers
Recognise the value of each digit in a two- digit number (tens, ones)	Recognise odd and even numbers	Solve missing number problems
Compare and order numbers from 0 up to 100 : use < > and = signs	Recall addition and subtraction facts to 20 fluently	Use arrays and pictorial representations to solve multiplication problems
1 1 2 3	Count in tens from any number, forward or backward	Use sharing to answer division questions
Recognise common fractions $ -$ of a length, shape, set of objects or quantity	Add & subtract numbers mentally, including: A two-digit nº & ones (eg 56 + 3)	Continue a number sequence increasing or decreasing in regular steps
	 A two-digit nº & tens (eg 82 - 20) 	
	Add three single digit numbers together	Find different combinations of coins that equal the same amounts of money
	Recall doubles for numbers to 20 and recognise their corresponding halves	Solve problems involving the addition and subtraction of money, including giving change
	Tell the time to five minutes, including quarter past/to the hour	

YEAR 3 (age 7-8 years old)		
Number System	Mental Maths	Calculations
Read and write numbers up to 1000 in numerals and in words	Instant recall of 3x, 4x & 8x tables	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	Add & subtract numbers mentally, including:	Use formal written methods of multiplication for two-digit numbers times one-digit
Compare and order numbers up to 1000	 A three-digit n° & tens (eg 337 + 0) A three-digit n° & tens (eg 492 - 30) A three-digit n° & hundreds (eg 627 + 200) 	Use inverse operations to solve missing
Count from 0 in multiples of 4, 8, 50 & 100	Double multiples of 5 up to 100 (eg 45 + 45)	number problems
Find 10 or 100 more or less than a given n°	Recall number pairs that total 100 (eg 37 + 63 = 100)	Add and subtract fractions with the same denominator within one whole (eg $5/7 + 1/7 = 6/7$)
Round any 2 or 3-digit number to the nearest 10 or 100	Know the number of seconds in a minute	Add and subtract amounts of money giving
Count up & down in tenths	and the number of days in each month/year	change up to £10.00
Recognise fractions with small denominators	Tell the time from an analogue clock, including using Roman numerals	

YEAR 4 (age 8-9 years old)		
Number System	Mental Maths	Calculations
Read and write numbers up to 10,000 in numerals and in words	Recall multiplication and division facts for multiplication tables up to 12 x 12	Add and subtract numbers with up to 4 digits using the formal methods of columnar addition and subtraction
Find 1000 more or less than a given n ^o	Recognise and use factor pairs	Multiply two-digit and three-digit numbers by
Round any number to the nearest 10, 100 or 1000	Multiply or divide a one or two-digit number by 10 and 100	a one-digit number using formal written layout
Count backwards through zero to include negative numbers	Add/subtract two 2-digit numbers mentally (eg 39 + 19 = 58, 91 – 35 = 56)	Calculate division facts with remainders Find fractions of quantities (eg 3/5 of 35)
Read Roman numerals to 100 (I to C)	Double all the numbers up to 100	Add and subtract fractions with the same
Count up and down in hundredths	Recognise decimal equivalents to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$	
Recognise families of common equivalent fractions	Read, write and convert time between analogue and digital 12 & 24-hour clocks	Find a quarter of a number by halving and halving again
Round decimals with one decimal place to the nearest whole number		Solve simple measures and money problems involving fractions and decimals to two decimal places
		Convert between different units of measure (eg kilometre to metre; hour to min)

YEAR 5 (age 9-10 years old)		
Number System	Mental Maths	Calculations
Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	Multiply and divide numbers mentally drawing upon known facts (eg 40 x 7, 0.3 x 6, 80 x 60, 320 ÷ 8)	Add and subtract whole numbers with more than 4 digits using formal written methods Multiply whole numbers up to 4 digits by a
powers of 10 for any given number	12 x 12	written method, including long multiplication
Count forwards and backwards with positive and negative whole numbers through zero	Add and subtract numbers mentally with increasingly large numbers	Divide numbers up to 4 digits by a one-digit number using the formal written method of
Round any number up to a million to the nearest 10, 100, 1000, 10 000 and 100 000	Recognise multiples of 10 that pair together to make 1000	short division
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals	Multiply and divide whole numbers and decimals by 10, 100 and 1000	Convert mixed numbers to improper fractions and vice versa
Compare and order fractions	Identify multiples and factors, including finding all factor pairs of a number, and	Add and subtract fractions with
fractions	Recall prime numbers up to 19	number
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Identify equivalent fractions	Multiply proper fractions and mixed numbers by whole numbers
Round decimals (with 2dp) to the nearest whole number and to one decimal place		Find fractions and simple percentages of quantities
Write percentages as a fraction (32/100), and as a decimal		

YEAR 6 (age 10-11 years old)		
Number System	Mental Maths	Calculations
Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit	Solve decimal calculations using related multiplication/division facts (eg 4.8 ÷ 6)	Use formal written methods of addition and subtraction for whole numbers & decimals
Identify the value of each digit in numbers given to three decimal places	Perform mental calculations, including with mixed operations and large numbers	Multiply a 4-digit number by a 2-digit whole number using the efficient written method of long multiplication
	Recognise decimal pairs to 1 and 100	
Round any whole number or decimal to a required degree of accuracy	Double and halve decimal numbers	Divide a 4-digit number by a 2-digit whole number using the formal written method of long division
Use negative numbers in context, and calculate intervals across zero	Identify common factors, common multiples and prime numbers	When dividing, interpret remainders in different contexts: as whole numbers,
Compare and order fractions including fractions >1	Recognise squared/cubed numbers, square roots and powers.	fractions, decimals or by rounding
	Use common factors to simplify a fraction to its lowest form	Use BODMAS to carry out calculations involving all operations
	Identify equivalent fractions, decimals and percentages	Add and subtract fractions and mixed numbers by finding common denominators
		Multiply two fractions together
	Convert between standard units of length, mass and capacity including miles and kilometres	Divide fractions by whole numbers (eg $1/3 \div 2 = 1/6$)
		Use simple algebraic formulae
		Calculate percentages (eg 36% of 250)