

Corporation Road Community Primary School

Year 5/6 Maths LTP

Maths: Year 5/6			
Vision: At Corporation Road we wan we focus on quality first teaching wh them in other subject areas. Pupils I learning. We want children to under ensure the children have a depth of and encourage this in all lessons. W understanding in all mathematical co Learning Sequence Children will be exposed to all mathematical will be on deepening the learning to	t all of our children t nich equips our pupils ouild upon their prior rstand that getting th knowledge. Teacher e want our children to oncepts.	to be competent mathematicians. We desire our pupils to be able to work confident s with: a fluency of basic number facts and calculation methods; the ability to apply r knowledge and make links between different concepts in maths. Assessment is us nings wrong is part of the learning process and develop a growth mind-set. When in rs move from concrete to pictorial to abstract in order to scaffold the learning effect to work together to solve problems and to verbally reason with their peers. We are roughout the year. Where concepts are revisited, then the focus is on children beco	ly with a range of number, represe them to reason and solve problem ed to inform teachers what childre troducing a new concept, teachers ively. We understand that mather passionate about children building
problems that are more complex late	er on.	reason and problem solve within the concept. At corporation houd, we believe the	
Domains			
Number and Place Value Children should be able to work cont and recognise the place value of eac Calculations (Addition, Subtraction, I Pupils should be fluent in written method	fidently and recognis h digit in larger numl Multiplication and Di ods for all four operatio	se the place value of numbers up to 10,000,000; representing these numbers in a va bers. ivision) ons, including long multiplication and division.	riety of ways. Children should be a
Fractions, Decimals and Percentages	·		
Children should be able to recognise the	e place value of fractio	ns, calculate using fractions and use equivalent fractions decimals and percentages confide	ntly.
Children will be able to confidently v	vork with 2D and 3D	shapes and representations of these shapes. They will be able to plot points and sh	apes using all four quadrants.
Measurement Children will be able to convert betw shapes.	veen different units c	of metric measures and convert between some units of metric and imperial measure	ements. Children will be able to ca
Children will be able to read and inte	erpret a wide range o	of graphs and charts, including timetables. They will be able to contrast their own us	sing a set of discrete data.
		Autumn	0
Domains Covered	Number of Weeks	Year 5 Objectives	Ye
Number and Place Value	3	 Read, write, order, compare and know place value of numbers to at least 1 000 000 Interpret negative numbers in context, count forwards and backwards with + or - whole numbers, including through zero, in steps of powers of 10 for any given number up to 1000 000. Read Roman Numerals to 1000 (M) and recognise years written in Roman Numerals. 	 Read, write, order and co determine the value of ea Use negative numbers in o Generate and describe line
Addition and Subtraction	2	• Add and subtract numbers mentally with increasingly large numbers and whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction).	 Solve multi-step problem multiplication and divisio calculations and determin accuracy.

entations and calculations. At Corporation Road ns; and the competence and confidence to use en can do and informs the next steps of s use a variety of visual representations to matical talk is vital when deepening the learning g their procedural fluency and conceptual

nd when the concept is revisited then the focus ensure they become confident when tackling

able to count in powers of ten from any number

Iculate the area and perimeter of common 2D

ear 6 Objectives

ompare numbers up to 10 000 000 and ach digit.

context and calculate intervals across 0.

near number sequences including across zero.

ns involving addition, subtraction, on and use estimation to check answers to ne, in context, an appropriate degree of

		• Solve problems involving addition, subtraction, multiplication and division and a combination of these, including using knowledge of factors	Use their knowledge of the involving the four operation
Statistics	2	 and multiples, squares and cubes, including multistep problems. Complete, read and interpret information in tables, including timetables, and line graphs to solve comparison, sum and difference problems. 	 With mixed operations and Interpret and construct pie problems including conver
		•	Calculate and interpret the
Multiplication and Division	3	 Multiply / divide numbers mentally using known facts and use formal written methods for 4 digit x 1 or 2 digit, and 4 digit ÷ 1 digit short division (interpreting remainders in context). Solve problems involving addition, subtraction, multiplication and division and a combination of these, including using knowledge of factors and multiples, squares and cubes, including multistep problems. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. 	 Multiply and divide multi- whole number using the for long division (interpret Solve multi-step problems multiplication and division calculations and determin accuracy. Can identify multiples and factors of two numbers and composite (non-prime) nu 100 is prime and recall pri square numbers and cube and cubed (2³).
Measures	2	 Convert between different units of metric measure and understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Measure and calculate the perimeter of composite rectilinear shapes (cm/m) and calculate and compare the area of rectangles (including squares, cm², m²) and estimate area of irregular shapes. Estimate volume (for example, using 1 cm ³ blocks to build cuboids (including cubes) and capacity (for example, using water)). 	 Solve problems converting larger, and vice versa, usir Know formulae to find the parallelograms & triangles areas can have different p
Division	2	 Multiply / divide numbers mentally using known facts and use formal written methods for 4 digit x 1 or 2 digit, and 4 digit ÷ 1 digit short division (interpreting remainders in context). Solve problems involving addition, subtraction, multiplication and division and a combination of these, including using knowledge of factors and multiples, squares and cubes, including multistep problems. 	 Multiply and divide multi- whole number using the f or long division (interpret
Geometry		 Identify 3-D shapes, including cubes and other cuboids, from 2-D representations (e.g. nets). Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. 	 Compare and classify geor properties and use them t angles: recognise, describe making nets
		Spring	
Place Value	1	 Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. 	Round any whole number
Fractions	4	 Compare and order, add and subtract fractions whose denominators are the same or are all multiples of the same number. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Recognise and convert between mixed numbers and improper fractions (for example, ⁶/₅ = 1¹/₅) and multiply mixed numbers and proper fractions by a whole number (supported by materials and diagrams). 	 Identify and use common multiples to express fractiand order them, including Add and subtract fractions numbers, using the conception of print form and multiply and divise the completed of the sample, 1/2 ÷ 2 = 1/4, 1/4 × 2

ne order of operations to carry out calculations ons. To perform mental calculations, including id large numbers.

e charts and line graphs and use these to solve rting between miles and kilometres. e mean as an average.

-digit numbers up to 4 digits by a two-digit formal written method of long multiplication ting remainders).

is involving addition, subtraction, on and use estimation to check answers to ne, in context, an appropriate degree of

factors, find factor pairs of a number, common nd use prime numbers, prime factors and imbers and establish whether a number up to me numbers up to 19. Recognise and use numbers, and the notation for squared (2²)

g between of units of measure, smaller to ng decimal notation up to three decimal places. e area or volume of shapes (including area of s) and recognise that shapes with the same perimeters and vice versa.

-digit numbers up to 4 digits by a two-digit formal written method of long multiplication ting remainders).

metric shapes based on increasingly complex to draw 2-D shapes using given dimensions and e and build simple 3-D shapes, including

to a required degree of accuracy.

factors to simplify fractions; use common ions in the same denomination to compare g fractions > 1.

s with different denominators and mixed pt of equivalent fractions.

roper fractions, writing the answer in simplest ide proper fractions by whole numbers (for $2 = \frac{1}{2}$).

Decimals	1	 Read, write, order and compare numbers with up to three decimal places and solve problems involving up to 3 decimal places (Example, 0.71 = ⁷¹/₁₀₀ =71%). Round decimals with two decimal places to the nearest whole number and to one decimal place and use rounding to check answers in the context of a problem. 	 Associate a fraction with a equivalents (for example,
Decimals and Percentages	3	 Convert between decimal numbers, fractions and percentages and find percentages and fractions of quantities including solving problems. Read, write, order and compare numbers with up to three decimal places and solve problems involving up to 3 decimal places (Example, 0.71 = ⁷¹/₁₀₀ = 71%). 	 Identify the value of each and multiply and divide ne to three decimal places. Solve problems using equ and percentages, includin rounded to specified degr Solve multi-step problem example, of measures, ar percentages for comparis
Measures		 Use all four operations to solve problems involving measure (for example, length, mass, volume, money, time) using decimal notation, including scaling and conversions, including converting units for calculation. 	 Solve problems converting larger, and vice versa, using
Calculations	3	 Add and subtract numbers mentally with increasingly large numbers and whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction). Multiply / divide numbers mentally using known facts and use formal written methods for 4 digit x 1 or 2 digit, and 4 digit ÷ 1 digit short division (interpreting remainders in context). Solve problems involving addition, subtraction, multiplication and division and a combination of these, including using knowledge of factors and multiples, squares and cubes, including multistep problems. Multiply and divide numbers with up to two decimal places by whole numbers. 	 Multiply and divide multi whole number using the sor long division (interpret Solve multi-step problem multiplication and divisio calculations and determin accuracy. Use their knowledge of the involving the four operations and with mixed operations and Use simple formulae and
		Summer	
Angles	2	 Estimate, compare, measure and draw acute, obtuse and reflex angles. Use the properties of rectangles and knowledge of angles at a point (360°) or on a straight line (180°) to deduce related facts and find missing lengths and angles. 	 Find unknown angles and a straight line, or vertically
Geometry & Position		 Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. 	 Draw and translate simple in the axes: use all four que
Ratio	1	Use simple ratio to draw shapes.	Use simple ratio and simp
Circles	1	Illustrate and name parts of circles, including radius, diameter and circumference	Illustrate and name parts circumference and know the second
Consolidation	7	Investigations, consolidation work in preparation for Transition.	

division and calculate decimal fraction , 0.375] for a simple fraction [for example, ¾).

digit in numbers given to three decimal places umbers by 10, 100 and 1000 giving answers up

ivalences between simple fractions, decimals ag in different contexts where answers are rees of accuracy.

ns involving the calculation of percentages (for nd such as 15% of 360) and the use of son.

g between of units of measure, smaller to ng decimal notation up to three decimal places.

i-digit numbers up to 4 digits by a two-digit formal written method of long multiplication ting remainders).

ns involving addition, subtraction,

on and use estimation to check answers to ne, in context, an appropriate degree of

ne order of operations to carry out calculations ions. To perform mental calculations, including ind large numbers.

express missing number problems algebraically.

length using knowledge of angles at a point, on y opposite.

e shapes on the coordinate plane, reflect them uadrants.

ole proportion to solve problems. of circles, including radius, diameter and that the diameter is twice the radius.