The Lanes PRIMARY SCHOOL **Year 4 Maths Long Term Plan**

Year 4 Long Term Plan 2021-2022

Term	Stand	Unit	Number of lessons
TERM 1	Number – place value	Place Value – 4 digit numbers	9
	Number – place value	Place Value – 4 digit numbers	9
	Number – addition and subtraction	Addition and Subtraction	15
	Measurement	Measure – perimeter	5
	Number – multiplication and division	Multiplication and division	11
TERM 2	Number – multiplication and division	Multiplication and division	15
	Measurement	Area	5
	Number – fractions	Fractions	7
	Number – fractions	Fractions	8
	Number – fractions	Decimals	10
TERM 3	Number – fractions (including decimals)	Decimals	7
	Measurement	Money	9
	Measurement	Time	5
	Statistics	Statistics	5
	Geometry	Angles and 2D shapes	10
	Geometry	Position and Direction	6

Year 4 Maths Long Term Plan

Term	Strand	Unit	Lesson number	Key concepts	NC objective link	Planning days	Ready to progress
	Recovery curriculum – Nrich activities and extended Daily Fluency						
AUTUMN 1	Place Value	1	1,2,3	• Numbers to 1000 • Rounding to the nearest 10 • Rounding to the nearest 100	Recognise the value of each digit in a four-digit number (thousands, hundreds, tens, and ones Round any number to the nearest 10, 100 or 1,000	1 day AFL 3 days PM	Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three digit multiples of 1 Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning. Reason about the location of any three digit number in the linear number system, including identifying the previous and next multiple of 100 and 10. Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts.
	Place Value	1	4,5,6,7	• Counting in 1,000s • Representing 4-digit numbers • 1,000s, 100s, 10s and 1s • The number line to 10,000	Count in multiples of 6, 7, 9, 25 and 1,000 Identify, represent and estimate numbers using different representations Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	4 days PM	
	Place Value Place Value	1 2	8,9 1,2	• The number line to 10,000 • Roman numerals to 100 • Finding 1,000 more or less • Comparing 4-digit numbers (1)	Order and compare numbers beyond 1,000 Read roman numerals to 100 (i to c) and know that over time, the numeral system changed to include the concept of zero and place value Find 1,000 more or less than a given number	2 days PM 2 days PM	
	Place Value	2	3,4,5,6	• Comparing 4-digit numbers (2)	Order and compare numbers beyond 1,000	4 days PM	

Year 4 Maths Long Term Plan

				• Ordering numbers to 10,000 • Rounding to the nearest 1,000 • Solving problems using rounding	Round any number to the nearest 10, 100 or 1,000 Solve number and practical problems that involve all of the above and with increasingly large positive numbers		
	Place Value Addition and Subtraction	2 3	7 , 8, 9	• Counting in 25s • Negative numbers	Count in multiples of 6, 7, 9, 25 and 1,000 Count backwards through zero to include negative numbers	3 days PM 1 day AFL	Secure fluency in addition and subtraction facts that bridge 10, through continued practice. Calculate compliments to 100
	Addition and Subtraction	3	1,2,3,4	• Adding and subtracting 1s, 10s, 100s, 1,000s • Adding two 4-digit numbers	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	4 days PM	Add and subtract up to three-digit numbers using columnar methods.
HALF TERM							
Autumn 2	Addition and Subtraction	3	5,6,7,8,9	• Subtracting two 4-digit numbers • Equivalent difference	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Estimate and use inverse operations to check answers to a calculation	5 days PM	Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure.

Year 4 Maths Long Term Plan

	Addition and Subtraction	3	10,11,12,	• Estimating answers to additions and subtractions • Checking strategies • Problem solving – addition and subtraction	Estimate and use inverse operations to check answers to a calculation Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	3 days PM 1 day AFL	Understand and use the commutative property of addition, and understand the related property for subtraction.
	Addition and Subtraction	3	13,14,15	• Problem solving – addition and subtraction	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	3 days PM 1 day AFL	
	Measurement	4	1,2,3,4,5	• Kilometres • Perimeter of a rectangle • Perimeter of rectilinear shapes	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	5 days PM	Measure lines in centimetres and metres.
	Multiplication and Division	5	1,2,3	• Multiplying by multiples of 10 and 100 • Dividing by multiples of 10 and 100 • Multiplying by 0 and 1	Recall multiplication and division facts for multiplication tables up to 12 × 12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	1 day AFL 3 days PM	Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number

The Lanes PRIMARY SCHOOL **Year 4 Maths Long Term Plan**

	Multiplication and Division	5	4,5,6,7,8,9	• Dividing by 1 • Multiplying and dividing by 6 • Multiplying and dividing by 9 • Multiplying and dividing by 7	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Recall multiplication and division facts for multiplication tables up to 12 × 12	5 days	Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).
	Multiplication and Division	5	10,11	• 7 times tables • 11 and 12 times-tables	Recall multiplication and division facts for multiplication tables up to 12 × 12	2 days	Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division
CHRISTMAS HOLIDAYS							

The Lanes PRIMARY SCHOOL

Year 4 Maths Long Term Plan

Year 4 Maths Long Term Plan

TERM	Strand	Unit	Lesson number	Key concepts	NC objective link	Planning days	Ready to progress
SPRING 1	Multiplication and Division	6	1,2,3,4	• Problem solving – addition and multiplication • Problem solving – mixed problems • Using written methods to multiply • Multiplying a 2-digit number by a 1-digit number	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	4 days PM 1 day mental maths/ times tables	Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10). Apply known multiplication and division facts to solve contextual problems with different structures, including quotative and partitive division
	Multiplication and Division	6	5,6,7,8	• Multiplying a 2-digit number by a 1-digit number • Problem solving – multiplication • Multiplying more than two numbers x 2	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects Recognise and use factor pairs and commutativity in mental calculations	4 days PM 1 day mental maths / times tables	
	Multiplication and Division	6	9,10,11,12	• Problem solving – mixed correspondence problems • Dividing a 2-digit number by a 1-digit number • Division with remainders • Dividing a 2-digit number by a 1-digit number	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	4 day PM 1 day mental maths / times tables	
	Multiplication and Division	6	13,14,15	• Dividing a 2-digit number by a 1-digit number • Dividing a 3-digit number by a 1-digit number • Problem solving – division	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems	3 days PM 1 day AFL	

Year 4 Maths Long Term Plan

					and harder correspondence problems such as n objects are connected to m objects		
	Measure – area	7	1,2,3,4	• What is area? • Counting squares x 2 • Making shapes	Find the area of rectilinear shapes by counting squares Find the area of rectilinear shapes by counting squares	4 day PM 1 day mental maths / times tables	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 – area Fractions	7 8	5 1,2	• Comparing area • Tenths and hundredths x 2	Estimate, compare and calculate different measures, including money in pounds and pence Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	3 days PM 2 days AFL	
HALF TERM							
SPRING 2	Fractions	8	3,4,5. 6	• Equivalent fractions x 2 • Simplifying fractions • Fractions greater than 1	Recognise and show, using diagrams, families of common equivalent fractions Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	4 days PM 1 day mental maths/ times tables	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Compare and order unit fractions, and fractions with the same denominators
	Fractions	8	7 , 8	• Fractions greater than 1 x 2	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	4 days PM	

The Lanes PRIMARY SCHOOL **Year 4 Maths Long Term Plan**

	Fractions	9	1,2	• Adding fractions • Subtracting fractions	Add and subtract fractions with the same denominator	1 day AFL	Recognise and show, using diagrams, equivalent fractions with small denominators
	Fractions	9	3,4,5,6	• Subtracting fractions • Problem solving – adding and subtracting fractions x 2 • Calculating fractions of a quantity	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	4 day PM 1 day mental maths/ times tables	
	Fractions Decimals	9 10	7,8 1,2	• Problem solving – adding and subtracting fractions – 2 sessions • Tenths - 2 sessions	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number Recognise and write decimal equivalents of any number of tenths or hundredth	4 days PM 1 day AFL	Add and subtract fractions with the same denominator within one whole (for example, 5 7 + 1 7 = 6 7) Measure, compare, add and subtract: lengths (m/ cm/mm); mass (kg/g); volume/capacity (l/ml)
	Decimals	10	3,4,5,6	• Tenths • Dividing by 10 – 2 sessions • Hundredths – 2 sessions	Find the effect of dividing a one- or two digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	4 days PM 1 day mental maths/ times tables	
	Decimals	10	7,8,9,10	• Hundredths • Dividing by 100 • Dividing by 10 and 100	Find the effect of dividing a one- or two digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	4 days PM	

The Lanes PRIMARY SCHOOL **Year 4 Maths Long Term Plan**

					Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten		
EASTER HOLIDAYS							

Year 4 Maths Long Term Plan

TERM	Strand	Unit	Lesson number	Key concepts	NC objective link	Planning days	Ready to progress
SUMMER 1	Decimals	11	1,2,3,4	• Making a whole • Writing decimals • Comparing decimals • Ordering decimals	Recognise and write decimal equivalents of any number of tenths or hundredths Find the effect of dividing a one- or two digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Add and subtract fractions with the same denominator Compare numbers with the same number of decimal places up to two decimal places Lots of extra challenges for highers needed Magic number squares. Spiral game. Lowers did part whole models. Used counters and place value sheets.	4 PM days 1 Day mental maths / times tables	In Year 3…pupils connect tenths to place value, decimal measures and to division by 10. 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.
	Decimals	11	5,6,7	• Rounding decimals • Halves and quarters • Problem Solving with decimals	Round decimals with one decimal place to the nearest whole number Recognise and write decimal equivalents to 1 /4, 1/ 2, 3 /4 Solve simple measure and money problems involving fractions and decimals to two decimal places	3 PM days 1 day AFL	
	Measurement – money	12	1,2,3,4	• Pounds and pence • Pounds , Pence , tenths and Hundredths • Ordering amounts of money • Rounding money	Estimate, compare and calculate different measures, including money in pounds and pence Solve simple measure and money problems involving fractions and decimals to two decimal places	MAY DAY – 4 day week 4 days PM	In Year 3 … pupils know the number of seconds in a minute and the number of days in each month, year and leap year and compare durations of events [for example to calculate the

Year 4 Maths Long Term Plan

	Measurement – money	12	5,6,7,8, 9	• Using rounding to estimate money • Pounds and pence problem solving • Multiplication and division problem solving • Two step problems • Problems with money	Estimate, compare and calculate different measures, including money in pounds and pence Solve simple measure and money problems involving fractions and decimals to two decimal places	5 days PM	time taken by particular events or tasks]. Pupils use both analogue and digital 12-hour clocks and record their times. In this way they become fluent in and prepared for using digital 24-hour clocks in year 4.
	Measurement – time	13	1,2,3	• Units of time (2 lessons) • Converting time	Convert between different units of measure [for example, kilometre to metre; hour to minute]	1 day AFL 3 Days PM	
	HALF TERM						
SUMMER 2	Measurement – time Statistics	13 14	4,5 1,2	• Converting times • Problem solving with time • Charts and tables x 2 lessons	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	4 days PM	
	Statistics	14	3,4, 5	• Line graphs x 2 lessons • Problem solving with graphs	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	3 days PM May want more time on problem solving with graphs !	In Year 3 pupils…. 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.
	Geometry	15	1,2,3,4	• Identifying angles • Comparing and ordering angles • Identifying regular and irregular • Types of triangles	Identify acute and obtuse angles and compare and order angles up to two right angles by size Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	4 PM lessons	
	Geometry	15	5,6,7,8,9	• Classifying and comparing quadrilaterals • Deducing facts about shapes • Lines of symmetry inside a shape • Lines of symmetry outside a shape • Completing a symmetrical shape	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry	5 PM , consider condensing 2 lessons to 1	In Year 3 pupils…. draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them ♣ 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
	Geometry	15 16	10 1,2,3	• Completing a symmetrical shape • Describing position x 2 lessons • Drawing on a grid • Reasoning on a grid	Complete a simple symmetric figure with respect to a specific line of symmetry Plot specified points and draw sides to complete a given polygon	5 PM sessions Consider condensing describing position	

Year 4 Maths Long Term Plan

					Describe movements between positions as translations of a given unit to the left/right and up/down		than a right angle ♣ identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
	Geometry	16	4,5,6	• Reasoning on a grid • Moving on a grid • Describing movement on a grid	Describe movements between positions as translations of a given unit to the left/right and up/down	3 PM sessions , could be done as a maths morning	