

love the journey

Curriculum Implementation 2023-24

Primary

LCA Strand	Maths
Subject	Maths

	EYFS
	 Understanding that the cardinal value of a number refers to the quantity, or 'howmanyness' of things it represents Understanding that comparing numbers involves knowing which numbers are worth more or less than each other Understanding that one number can be made up from (composed from) two or more smaller numbers Looking for and finding patterns helps children notice and understand mathematical relationships Understanding what happens when shapes move, or combine with other shapes, helps develop wider mathematical thinking Comparing different aspects such as length, weight and volume, as a preliminary to using units to compare later
	Chapter I
What are the key concepts taught?	 Counting to and across 100, forwards and backwards, beginning with zero or one, or from any given number Counting, reading and writing numbers to 100 in numerals and numbers one to 20 in numerals and words; counting in multiples of two, five and ten Given a number within 100, identifying one more and one less Representing and using number bonds and related subtraction facts within 20 Solving one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and solving missing number problems Solving problems that involve grouping and sharing, including halving and doubling Comparing, describing and solving practical problems for length and height, mass or weight, and capacity and volume Comparing, describing and solving practical problems for time and telling the time to the hour and half past the hour; drawing the hands on a clock face to show these times

9. 10.	Recognising and naming common 2- D shapes, including rectangles (including squares), circles and triangles Recognising and naming common 3- D shapes, including cuboids (including cubes), pyramids and spheres.
Cha	apter 2
١.	Compare and order numbers from zero up to 100 using the and = signs
2. 3.	Recognise the place value of each digit in a two-digit number Count in steps of two, three and five from zero, and in tens from any number, forward and backward
4.	Recall and use addition and subtraction facts to 20 fluently, deriving and using related facts to 100
5.	Solve problem with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers quantities and measures including money (and giving change)
6.	Recall and use multiplication and division facts for the two, five and ten multiplication tables, including recognising odd and even numbers
7.	Solves problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
8.	Recognise, find, name and write fractions half, quarter and three quarters of a length, shape, set of objects or quantity
9.	Solve simple problems in a practical context involving addition and subtraction of mass, capacity and length
10.	Compare and sort common 2-D and 3-D shapes and everyday objects and order and arrange combinations in patterns and sequences
11.	Use mathematical vocabulary to describe position, direction and movement including movement in a straight line, and distinguish between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)
12.	Ask and answer questions about totalling and comparing categorical data
13.	Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times
Cha	apter 3
l. 2.	Counting from zero in multiples of four, eight, 50 and 100 Recognising the place value of each digit in a three-digit number (hundreds, tens and ones) and finding 100 more or less than a given number
3.	Using place value and number facts to solve number problems and practical problems
4.	Adding and subtracting numbers mentally, including: a three- digit number and ones; a three-digit number and tens; a three-digit number and hundreds

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5.	Applying addition and subtraction to numbers with up to
	three digits using the columnar addition method
6.	Solving scaling and correspondence problems for
	multiplication and division using the multiplication tables that
	are known, including problems that involve multiplying a
	two-digit number by a one-digit number
7.	Recognising, finding and writing fractions of a discrete set of
	objects, including unit fractions and non-unit fractions with
	small denominators
8.	Measuring, comparing, adding and subtracting: lengths (m,
	cm, mm); mass (kg, g); volume or capacity (l, ml)
9.	Telling and writing the time from an analogue clock and in
	12-hour format, and comparing durations of events
10.	Identifying right angles; recognising that two right angles
	make a half-turn, three right angles make three quarters of a
	turn and four right angles a complete turn; identifying
	whether angles are greater than or less than a right angle.
	3G–I Recognise right angles as a property of shape or a
	description of a turn, and identify right angles in 2-D shapes
	presented in different orientations. $3G-2$ Draw polygons by
	ioining marked points, and identify parallel and perpendicular
	sides
111	Interpreting and presenting data using bar charts pictograms
	and tables.
Cha	apter 4
	-F
1.	Count in multiples of six, seven, nine, 25 and 1000
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1. 2. 3.	Count in multiples of six, seven, nine, 25 and 1000 Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) and find 1000 more or less than a given number Round any number to the nearest ten, hundred or thousand
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11.	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
12.	Identify lines of symmetry in 2-D shapes presented in different orientations
13.	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
14.	Interpreting and presenting data using bar charts, pictograms and tables.
Cha	apter 5
١.	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit; including counting forwards and backwards in steps of powers of 10
2.	Use and interpret negative numbers in context, and calculate intervals across zero
3.	Add and subtract whole numbers with more than 4 digits flexibly
4.	Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.
5.	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.
6.	Compare and order fractions, including mixed number and improper fractions whose denominators are all multiples of the same number.
7.	Solve problems involving numbers up to 3 decimal places including reading, writing, ordering and comparing numbers.
8.	Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation, including scaling.
9.	Convert between different units of measure (e.g. kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).
10.	Calculate and compare the areas of rectangles, including standard units of square cm and square m, and estimate the area of irregular shapes.
11.	Know angles are measured in degrees and estimate,
12.	Identify angles at a point and one whole turn (total 360°); angles at a point on a on a straight line and half a turn (total 180°); other multiples of 90°.
13.	Identify, describe and represent coordinates in the first guadrant.
14.	Complete, read and interpret information in tables, including timetables.
Cha	apter 6
1. 2.	Round any whole number to a required degree of accuracy. Decide which methods to use when solving multi-step problems involving addition, subtraction, multiplication and division, using estimation to check answers.

3.	Divide numbers up to 4 digits by a one- or two-digit whole number using the appropriate formal written methods of short and long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate.
4.	Identify common factors, common multiples and prime numbers.
5.	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
6.	Multiply simple pairs of proper fractions and divide a proper fraction by a whole number, writing answers in their simplest form.
7.	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
8.	Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison
9.	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
10.	Understand and use algebraic notation to solve simple problems.
11.	Use, read and write standard units; converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
12.	Choose and use the appropriate formula for finding the area of 2-D shapes, including parallelograms and triangles.
13.	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in triangles, quadrilaterals and regular polygons.
14.	Draw 2-D shapes using given dimensions and angles.
15.	Draw and translate simple shapes on the coordinate plane, in all four quadrants, and reflect them in the axes.

	EYFS
What is the sequencing of units?	Unit 1: Early Mathematical experiences Unit 2: Pattern and Early Number Unit 3: Numbers within 6 Unit 4: Addition and subtraction within 6 Unit 5: Measures Unit 6: Shape and sorting Unit 7: Numbers within 10 Unit 8: Calendar and time Unit 9: Addition and subtraction within 10 Unit 10: Grouping and Sharing Unit 11: Number patterns within 15 Unit 12: Doubling and halving Unit 13: Shape and pattern Unit 14: Securing addition and subtraction facts Unit 15: Number patterns within 20 Unit 16: Number patterns beyond 20

Unit 17: Money

Unit 18: Measures

Unit 19: Exploration of patterns within number

Chapter I

Unit I: Numbers to 10

- Unit 2: Addition and subtraction within 10
- Unit 3: Shape and patterns
- Unit 4: Numbers to 20
- Unit 5: Addition and subtraction within 20

Unit 6: Time

Unit 7: Exploring calculation strategies within 20

Unit 8: Numbers to 50

Unit 9: Addition and subtraction within 20 (comparison)

Unit 10: Fractions

- Unit 11: Measures (1): Length and mass
- Unit 12: Numbers 50 to 100 and beyond
- Unit 13: Addition and subtraction (applying strategies)
- Unit 14: Money
- Unit 15: Multiplication and division
- Unit 16: Measures (2): Capacity and volume

Chapter 2

Unit I: Numbers within 100 Unit 2: Addition and subtraction of 2-digit numbers Unit 3: Addition and subtraction word problems Unit 4: Measures: Length Unit 5: Graphs Unit 6: Multiplication and division Unit 7: Time Unit 8: Fractions Unit 9: Addition and subtraction of 2-digit numbers (regrouping and adjusting) Unit 10: Money Unit 11: Faces, shapes and patterns; lines and turns Unit I2: Numbers within 1000 Unit 13: Measures: Capacity and volume Unit 14: Measures: Mass Unit 15: Exploring calculation strategies Unit 16: Applying multiplicative thinking Chapter 3 Unit I: Number sense and exploring calculation strategies Unit 2: Place Value Unit 3: Graphs Unit 4: Addition and subtraction Unit 5: Length and perimeter Unit 6: Multiplication and division Unit 7: Calculating with multiplication and division Unit 8: Time Unit 9: Fractions Unit 10: Angles and Shape

- Unit 11: Measures
- Unit 12: Applying multiplicative thinking
- Unit 13: Exploring calculation strategies and place value

Chapter 4

- Unit I: Reasoning with 4-digit numbers
- Unit 2: Addition and subtraction
- Unit 3: Multiplication and division
- Unit 4: Interpreting and presenting data
- Unit 5: Calculating with multiplication and division
- Unit 6: Fractions
- Unit 7: Time
- Unit 8: Decimals
- Unit 9: Area and perimeter
- Unit 10: Solving measure and money problems
- Unit 11: 2-D Shape and Symmetry
- Unit 12: Position and Direction
- Unit 13: Reasoning with patterns and sequences
- Unit 14: 3D Shape

Chapter 5

Unit I: Reasoning with large whole numbers Unit 2: Problem solving with integer addition and subtraction Unit 3: Line graphs and timetables Unit 4: Multiplication and division Unit 5: Perimeter and area Unit 6: Fractions and decimals Unit 7: Angles Unit 8: Fractions and percentages Unit 9: Transformations Unit 10: Converting units of measure Unit 11: Calculating with whole numbers and decimals Unit 12: 2-D and 3-D shape Unit 13: Volume Unit 14: Problem solving Chapter 6 Unit I: Integers & Decimals Unit 2: Multiplication and division Unit 3: Calculation problems Unit 4: Fractions Unit 5: Missing angles and lengths Unit 6: Coordinates and shape Unit 7: Fractions Unit 8: Decimals and measures

- Unit 9: Percentages and statistics
- Unit 10: Proportion problems

	Our maths curriculum is knowledge-rich and precisely defined. The rich and broad body of core knowledge is clearly and meticulously specified in the Programmes of Study for each year group. Pupils are provided with opportunities to rehearse key facts through 5 for fluency, Do Nows, transitions, Maths Meetings, diagnostic quizzes, homework as well as the cumulative nature of the curriculum. In our curriculum, extended time is spent within a single area of mathematics. This allows teachers to spend more time developing learners' conceptual understanding and make connections with other areas of mathematics.
How do we encourage pupils to see the links between different units and concepts?	For learners to make sense of a new idea or relationship, they need to incorporate it into their current understanding to connect with ideas and relationships they have encountered previously. The greater their understanding of what has been taught previously, the more sense-making they will be able to do in the future with increasingly complex mathematics.
	• Tasks are sequenced to help learners build a narrative through different topics.
	 I hese topics are then sequenced in a logical progression that allows learners to establish connections and draw comparisons.
	• Multiple representations are extendable within and between different areas of mathematics.
	• Using these rich models encourages learners to develop different perspectives on a concept.
	• Tasks are designed so that learners are active participants and construct their own understanding of concepts.

What are the planned opportunities for adaptive teaching, including for SEND, the more and able and disadvantaged pupils?Our curriculum enables teachers to support the needs of all learners, including SEND, by building in opportunities for teachers to constantly assess and respond to the needs of their pupils. Teachers and leaders ensure that pupils are secure with the identified pre-requisite knowledge and understanding prior to beginning the teaching of new content. This might be done through starter activities; Do Nows, 5 for Fluency or homework.In some lessons, the adaption might be offered in a level of task; a bronze, silver or gold task. Scaffolded tasks are part of our daily planning. For those pupils who require concrete manipulatives to help support their learning, teachers will provide and encourage this resource to stay in place as necessary. The talk tasks in each lesson are a gateway for all pupils to apply new learning, in paired work.Teaching assistants receive high quality training on how to support pupils to use resources, manipulatives and how to connect learning.		
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The dimensions of depth, together with differentiation are central
within out curriculum and challenge our pupils to become
resilient problem solvers.

What are the planned opportunities for retrieval and reflection by pupils?	Our curriculum is cumulative. Concepts that are taught earlier in the curriculum are revisited in the context of a new area of mathematics, enabling learners to make connections between different mathematical concepts. Retrieving, using and applying concepts regularly, transferring to new contexts helps develop fluency as well as conceptual understanding. Interventions, Maths Meetings, 5 for fluency, transitions and Do Nows allow pupils more time to practice important facts and methods.
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	meticulously specified in the Programmes of Study for each year group. Pupils are provided with opportunities to rehearse key
	facts through Do Nows, transitions, Maths Meetings, quizzes as well as the cumulative nature of the curriculum. The planning is sequenced so that pupils learn new ideas by reference to ideas
	that they already know. Therefore, within units and across the whole curriculum, knowledge is positions to build on what has come before.

	Following on from each progress point, teachers review assessment outcomes and continue to align intervention, seating plans, differentiation and parent intervention, where necessary.
What are the opportunities for feed forward by the teacher post assessment outcomes?	Teachers are encouraged to continuously adapt planning, unit time allocation and content in line with what they see happening in the classroom. Formatively making changes to meet the needs of the learners. There is flexibility, within our curriculum design, to address identified gaps in pupils' knowledge that could hinder their capacity to learn and apply new content.

What are the planned opportunities for developing Reading?	At the beginning of each maths lesson, new vocabulary is read to pupils and they are given the opportunity to read new and familiar vocabulary in context, throughout the lesson.
	Most develop learning activities are modelled by both pupils and teacher and generally require reading out loud, reading independently or reading to a partner.

What are the planned opportunities for developing literacy, numeracy, oracy and SMSC?	Literacy: Subject specific vocabulary plays a big part in our curriculum and we have been impressed with how strong the use and understanding of mathematical vocabulary is used by our pupils. We ensure planned opportunities to discuss and record learning in an explanation. We encourage pupils to:
SMSC?	 In an explanation. We encourage pupils to: Spell key terms correctly Use mathematical language during lessons

Develop literacy through discussion

Numeracy:

Sense of number and maths related content is embedded in our curriculum. We develop estimation throughout our curriculum and give pupils various opportunities to make sense of talk, number, questions, answers and conjectures.

Oracy:

Children constantly interact orally with each other during talk tasks, games, sharing ideas and cooperating in groups. We use prompts during lessons and stem sentences. We encourage sentence repetition and regularly use: think, pair, share.

SMSC:

Learning to take turns; winning and losing; talk tasks; big picture subjects. Our maths curriculum supports spiritual and social development through engaging with the depth of thinking and problem solving; giving pupils the opportunities to discuss their learning with their peers. We expose pupils to a range of different approaches to problem solving and reasoning skills. Children are encouraged to look, discuss and evaluate a range of social and moral issues found in the world, through our presentation and topic of posed problems. This can sometimes draw upon other areas of study, such as history or geography.