Year 3

Maths Overview 2024-2025

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Daily Fluency
Autumn	Year 3 settling in week	Number - Place Value			Number – Addition and Subtraction					Assessment	Number – Multiplication and Division A					• I know number facts for each number up to 20 • Doubles and halves
Spring	Number – Multiplication and Division B				Measurement: Length and perimeter		Fractions A		Assessment	Fractions A	Measurement: Mass and Capacity		Number – Fractions B			• Count in 2s, 5s and 10s. I know the multiplication and division facts for the 2, 10 and 5 times tables. (consolidation) • Count in 3s. I know the multiplication and division facts for the 3 times table.
Summer	Number – Fractions B	Measurement: Money			Measurement: Time	Assessment	Measurement: Time	Geometry: Properties of shape		Statistics						• Count in 4s. I know the multiplication and division facts for the 4 times table. • Count in 8s. I know the multiplication and division facts for the 8 times table.

Statements in blue have been identified as 'ready to progress' objectives: key concepts which are essential building blocks for the next steps in learning.
These objectives must be embedded so that children are fluent.

Autumn Term

Knowledge and Skills	Teaching sequence
Block 1: Place Value • Identify, represent and estimate numbers using different representations. **(3NPV1, 3NPV2)** • Find 10 or 100 more or less than a given number. **(3NPV3)** • Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). **(3NPV2)** • Compare and order numbers up to 1000 **(3NPV3)** • Read and write numbers up to 1000 in numerals and in words. **(3NPV2)** • Solve number problems and practical problems involving these ideas. • Count from 0 in multiples of 4, 8, 50 and 100 **(3NPV4)**	Step 1 Represent numbers to 100 Step 2 Partition numbers to 100 Step 3 Number line to 100 **Step 4 Hundreds (NPV – 1)** **Step 5 Represent numbers to 1,000 (NPV – 2)** **Step 6 Partition numbers to 1,000 (NPV – 2)** **Step 7 Flexible partitioning of numbers to 1,000 (NPV – 2)** **Step 8 Hundreds, tens and ones (NPV – 2)** **Step 9 Find 1, 10 or 100 more or less (NPV – 3)** **Step 10 Number line to 1,000 (NPV – 3, NPV - 4)** **Step 11 Estimate on a number line to 1,000 (NPV – 3, NPV - 4)** **Step 12 Compare numbers to 1,000 (NPV – 3)** **Step 13 Order numbers to 1,000 (NPV – 3)** **Step 14 Count in 50s (NPV – 4)**
Block 2: Addition and subtraction • Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three digit number and hundreds. **(3NF1, 3AS2)** • Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. **(3AS2)** • Estimate the answer to a calculation and use inverse operations to check answers. **(3AS3)** • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	Step 1 Apply number bonds within 10 Step 2 Add and subtract 1s Step 3 Add and subtract 10s Step 4 Add and subtract 100s Step 5 Spot the pattern Step 6 Add 1s across a 10 Step 7 Add 10s across a 100 Step 8 Subtract 1s across a 10 Step 9 Subtract 10s across a 100 **Step 10 Make connections (NPV – 1)** **Step 11 Add two numbers (no exchange) (AS – 2)** **Step 12 Subtract two numbers (no exchange) (AS – 2)** **Step 13 Add two numbers (across a 10) (AS – 2)** **Step 14 Add two numbers (across a 100) (AS – 2)** **Step 15 Subtract two numbers (across a 10) (AS – 2)** **Step 16 Subtract two numbers (across a 100) (AS – 2)** **Step 17 Add 2-digit and 3-digit numbers (AS – 2)** **Step 18 Subtract a 2-digit number from a 3-digit number (AS – 2)** **Step 19 Complements to 100 (AS – 1)**

	Step 20 Estimate answers **Step 21 Inverse operations (AS- 3)** **Step 22 Make decisions (AS- 3)**
Block 3: Multiplication and Division • Count from 0 in multiples of 4, 8, 50 and 100 **(3NF3)** • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. **(3NF2,** • Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. **(3MD1)** • Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which *n* objects are connected to *m* objectives. **(3MD1)**	**All steps relate to MD – 1** **Step 1 Multiplication – equal groups** **Step 2 Use arrays** **Step 3 Multiples of 2 (NF – 2)** **Step 4 Multiples of 5 and 10 (NPV – 1, NF - 2)** **Step 5 Sharing and grouping (NF – 2)** **Step 6 Multiply by 3** **Step 7 Divide by 3** **Step 8 The 3 times-table** **Step 9 Multiply by 4 (NF – 2)** **Step 10 Divide by 4 (NF – 2)** **Step 11 The 4 times-table (NF – 2)** **Step 12 Multiply by 8** **Step 13 Divide by 8** **Step 14 The 8 times-table** **Step 15 The 2, 4 and 8 times-table**

Spring Term

Knowledge and Skills	Teaching sequence
Block 1: Multiplication and Division • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. **(3NF2)** • Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two digit numbers times one-digit numbers, using mental and progressing to formal written methods. **(3MD1)** • Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which *n* objects are connected to *m* objects **(3MD1)**	**All steps relate to MD – 1** **Step 1 Multiples of 10 (NF – 3)** **Step 2 Related calculations (NF – 3)** **Step 3 Reasoning about multiplication** **Step 4 Multiply a 2-digit number by a 1-digit number – no exchange** **Step 5 Multiply a 2-digit number by a 1-digit number – with exchange** **Step 6 Link multiplication and division** **Step 7 Divide a 2-digit number by a 1-digit number – no exchange** **Step 8 Divide a 2-digit number by a 1-digit number – flexible** **Step 9 Divide a 2-digit number by a 1-digit number – with remainders** **Step 10 Scaling (NF – 3)** **Step 11 How many ways?**

Block 2: Length and perimeter • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). **(3NPV2, 3NPV3, 3AS2)** • Measure the perimeter of simple 2D shapes. **(3AS2)**	**Step 1 Measure in metres and centimetres (NPV – 4)** **Step 2 Measure in millimetres (NPV – 4)** **Step 3 Measure in centimetres and millimetres (NPV – 4)** Step 4 Metres, centimetres and millimetres **Step 5 Equivalent lengths (metres and centimetres) (NPV – 1)** **Step 6 Equivalent lengths (centimetres and millimetres) (NPV – 1)** Step 7 Compare lengths Step 8 Add lengths Step 9 Subtract lengths Step 10 What is perimeter? Step 11 Measure perimeter Step 12 Calculate perimeter
Block 3: Fractions A • 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 **(3F1, 3F3)** • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. **(3F1)** • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. **(3F1)** • Recognise and show, using diagrams, equivalent fractions with small denominators. **(3F1)** • Compare and order unit fractions, and fractions with the same denominators. **(3F3)**	**Step 1 Understand the denominators of unit fractions (F – 1)** **Step 2 Compare and order unit fractions (F – 3)** **Step 3 Understand the numerators of non-unit fractions (F – 1)** **Step 4 Understand the whole (F – 1)** **Step 5 Compare and order non-unit fractions (F – 3)** **Step 6 Fractions and scales (NF – 3)** **Step 7 Fractions on a number line (F – 3)** **Step 8 Count in fractions on a number line (F – 3)** **Step 9 Equivalent fractions on a number line (NF – 3)** **Step 10 Equivalent fractions as bar models (NF – 3)**
Block 4: Measurement – mass and capacity • Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml)	Step 1 Use scales Step 2 Measure mass in grams Step 3 Measure mass in kilograms and grams Step 4 Equivalent masses (kilograms and grams) Step 5 Compare mass Step 6 Add and subtract mass Step 7 Measure capacity and volume in millilitres Step 8 Measure capacity and volume in litres and millilitres Small steps Step 9 Equivalent capacities and volumes (litres and millilitres) Step 10 Compare capacity and volume Step 11 Add and subtract capacity and volume

Block 5: Fractions • Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] **(3F4)** • Solve problems that involve all of the above. **(3F3, 3F4)**	**Step 1 Add fractions (F – 4)** **Step 2 Subtract fractions (F – 4)** Step 3 Partition the whole **Step 4 Unit fractions of a set of objects (F – 2)** Step 5 Non-unit fractions of a set of objects Step 6 Reasoning with fractions of an amount

Summer Term

Knowledge and Skills	Teaching sequence
Block 1: Fractions (continued) • Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] **(3F4)** • Solve problems that involve all of the above. **(3F3, 3F4)**	**Step 1 Add fractions (F – 4)** **Step 2 Subtract fractions (F – 4)** Step 3 Partition the whole **Step 4 Unit fractions of a set of objects (F – 2)** Step 5 Non-unit fractions of a set of objects Step 6 Reasoning with fractions of an amount
Block 2: Number – Money • Add and subtract amounts of money to give change, using both £ and p in practical contexts. **(3NPV2, 3AS2)**	Step 1 Pounds and pence Step 2 Convert pounds and pence **Step 3 Add money (AS- 3)** **Step 4 Subtract money (AS – 1, AS - 3)** **Step 5 Find change (AS – 1, AS- 3)**
Block 3: Time • Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12-hour and 24-hour clocks. • Estimate and read time with increasing accuracy to the nearest minute. • Record and compare time in terms of seconds, minutes and hours. • Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. • Know the number of seconds in a minute and the number of days in each month, year and leap year. • Compare durations of events [for example to calculate the time taken by particular events or tasks].	Step 1 Roman numerals to 12 Step 2 Tell the time to 5 minutes Step 3 Tell the time to the minute Step 4 Read time on a digital clock Step 5 Use am and pm Step 6 Years, months and days Step 7 Days and hours Step 8 Hours and minutes – use start and end times Step 9 Hours and minutes - use durations Step 10 Minutes and seconds Step 11 Units of time Step 12 Solve problems with time
Block 4: Geometry – properties of shape • Recognise angles as a property of shape or a description of a turn. **(3G1)**	Step 1 Turns and angles **Step 2 Right angles (G – 1)**

• 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 than a right angle. **(3G1)** • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. **(3G2)** • Draw 2-D shapes and make 3-D shapes using modelling materials. **(3G2)** • Recognise 3-D shapes in different orientations and describe them. **(3G2)**	Step 3 Compare angles Step 4 Measure and draw accurately Step 5 Horizontal and vertical **Step 6 Parallel and perpendicular (G – 2)** Step 7 Recognise and describe 2-D shapes **Step 8 Draw polygons (G – 2)** Step 9 Recognise and describe 3-D shapes Step 10 Make 3-D shapes
Block 5: Statistics • 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. **(3NPV3/4)**	Step 1 Interpret pictograms Step 2 Draw pictograms Step 3 Interpret bar charts Step 4 Draw bar charts Step 5 Collect and represent data Step 6 Two-way tables