Year 4 Maths Overview

The principles of Fluency, Problem Solving and Reasoning will be threaded throughout each unit.

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14

Autumn

Place Value (Weeks 1–4)

Previous – numbers to 1000, comparing and ordering, counting in 50s and 100s, Roman Numerals to 12, near numbers

- Read and write roman numerals to 100
- Round to nearest 10
- Round to nearest 100
- Count in 1000s
- Represent 4-digit numbers in a variety of ways
- Partition 4-digit numbers in a variety of ways
- Represent and estimate numbers to 10,000 on number line
- 1000 more or less (linked to add/subtract)
- Compare 4 digit numbers
- Order 4 digit numbers
- Round to nearest 1000
- Count in 25s
- Introduce negative numbers and count back past zero
- Sequences involving negative numbers

Addition and Subtraction (Weeks 5–7)

Previous – mentally add/subtract 1s, 10s or 100s, Add/subtract 3 digit numbers using formal methods. Estimate using near numbers, Check using estimates.

- Mentally add/subtract 1s, 10s, 100s and 1000s (start with equipment, move to mental)
- Add 2 4-digit numbers (no boundaries)
- Add 2 4-digit numbers (one boundary)
- Add 2 4-digit numbers (boundaries)
- Subtract 2 4-digit numbers (no boundaries)
- Subtract 2 4-digit numbers (one boundary)
- Subtract 2 4-digit numbers (boundaries)
- Choosing efficient subtraction methods
- Estimating answers
- Checking using inverses or alternative methods

Length and Perimeter (Week 8)

Previous – measure in cm, m and mm, calculate perimeter and find missing lengths

- Introduce km
- Convert between m and km
- Link km to fractions e.g ¼ km =
- Perimeters of shapes on grid
- Perimeter of a rectangle
- Missing lengths and length possibilities
- Perimeters of compound shapes

Multiplication and Division (Weeks 9–11)

Previous – 3x, 4x and 8x, Multiplication and Division facts, fact families, comparing facts

- Multiply numbers by 10
- Multiply numbers by 100
- Divide by 10
- Divide by 100
- Multiply by 1 and 0
- Divide by 1, itself and 0
- Count in, multiply and divide by 6
- Know 6x multiplication and division facts
- Count in, multiply and divide by 9
- Know 9x multiplication and division facts
- Count in, multiply and divide by 7
- Know 7x multiplication and division facts
- Find 2 digit doubles and corresponding halves.

Week 12: Assessment

Area (Week 13)

Previous – measuring in cm, mm and m, converting measurements, perimeter

- Understanding area
- Counting full squares
- Making a shape from area (amount of squares)
- Comparing areas using <,> and =
- Put areas in order

Week 14: Mop up

Spring

Multiplication and Division (Weeks 1–4)

Previous – Multiply a 2-digit by a 1-digit using expanded column. Divide a 2-digit by a 1-digit including remainders using equipment and bus stop.

- Count in, multiply and divide by 11 and 12 (link to 10x, 1x and 2x)
- Know 11x and 12x multiplication and division facts
- Multiply 3 numbers (associative law)
- Understand the terms multiple and factor.
- Find factor pairs
- Mental multiplication (link into related facts, etc)
- Multiply a 2 digit number by a 1 digit number (exp)
- Multiply a 3 digit number by a 1 digit number (exp)
- Divide a 2 digit by a 1 digit in bus stop (no remainders)
- Divide a 2 digit by a 1 digit in bus stop (with rmdrs)
- Divide a 3 digit number by a 1 digit number
- Solve correspondence problems finding all possibilities, using multiplication facts.
- Solve balancing problems.

Fractions (Weeks 5–7)

Previous – finding equivalent fractions, comparing and ordering unit fractions and with the same denominator, add/subtract with the same denominator, total 1.

- Recap understanding of what a fraction is and find unit and non-unit fractions of shapes, objects and numbers.
- Identify if fraction are equivalent and find others (diagrams)
- Find equivalent fraction using multiplication and division
- Simplify fractions
- Understand that fractions can go over 1.
- Count in fractions, linking with whole numbers
- Add/subtract fractions with the same denominator where the answer is over 1
- Subtract fractions from whole amounts
- Find non-unit fractions of an amount.
- Use parts to calculate the whole

Decimals (Weeks 8–10)

Previous – know tenths as decimals

- Recognise tenths and hundredths using hundred square
- Recognise tenths as decimals
- Tenths on place value grid
- Tenths on number line
- Divide 1 digit by 10
- Divide 2 digits by 10
- Understand link between tenths and hundredths
- Count in hundredths
- Recognise hundredths and decimals
- Hundredths on place value grid
- Hundredths on number line
- Divide 1 or 2 digits by 100

Week 11: Assessment

Position and Direction (Week 12)

Previous – know clockwise, anti-clockwise, directional terms, horizontal and vertical.

- Introduce coordinates
- Describe position on grid
- Draw on a grid by plotting points
- Move one point on a grid
- Describe movement

Summer

Decimals (Week 1)

- Make a whole from tenths and hundredths
- Read and write decimals
- Understand the value of each digit
- Compare decimals up to 2 DP
- Order decimals up to 2 DP
- Round 1 DP to nearest whole number
- Decimal equivalents to halves and quarters

Money (Weeks 2–3)

Previous – value of coins and notes, calculate with money (separate notation), change, convert between £ and p.

- Write money using decimal notation
- Convert between £ and p using decimal notation
- Order money in different notations
- Estimate money using rounding
- Calculate with money using all 4 operations
- Solve problems

Properties of Shape (Weeks 4–7)

Previous – right-angles, acute and obtuse, horizontal and vertical lines of symmetry, identify and sort 2D and 3D shapes

- Use right-angle checker to identify if angle is acute or obtuse
- Know straight line is 180°
- Compare and order angles
- Identify and sort types of triangles
- Identify and sort quadrilaterals
- Identify all lines of symmetry in 2D shapes
- Complete symmetrical patterns and shapes

Statistics (Weeks 8–9)

Previous – pictograms, bar charts and tables. Collecting and presenting information

- Interpret information from bar charts, pictograms, tables, etc.
- Gather data using tally charts and present in bar chart
- Use addition and subtraction to compare and solve problems.
- Range of scales and conversions
- Introduce line graphs to show time.
- Tell the story of the graph
- Solve problems linked to line graphs

Time (Weeks 10–11)

Previous – time to nearest minute, read 24 hour and 12 hour clocks, time durations, start and end times.

- Covert between time measures (use multiplication)
- Convert from analogue to 12 hour
- Convert from analogue to 24 hour
- Convert between 12 hour and 24 hour.
- Compare times and find durations

Week 12: Assessment

Weeks 13–14: Investigations