Maths Curriculum Sequence
Year 4

Place Value

Position & Direction

Addition & Subtraction

Statistics

Perimeter

Assessment

x3, 6, 9 Multiplication Tables

x7 Multiplication Tables

Multiplicative Relationships

Summative Assessment

Fractions

Symmetry in 2D shapes

Time

Division With Remainders

Summative Assessment

Consolidation

Key:

Number, Place Value, Calculations, Fractions

Geometry

Measurement

Statistics

Assessment

Y4 Maths Plan
Place Value

Do **NOT** start the unit until **ALL** children have passed the prior learning check.
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Learning Steps
Prior learning check & remediation/deepening of prior
Represent numbers to THTO
Partition THTO
Value of digits to THTO
Number lines
1, 10, 100, 1000 more less
PS Lesson: PV and value of digits (more than possibility)
Compare two numbers using < > =
Order sets of numbers
PS Lesson: compare & order (visual)
Round numbers to nearest 10
Round numbers to nearest 100
Round numbers to nearest 1000
Round to nearest 10, 100, 100 within others (e.g. 424 to nearest 10 / 3908 to nearest 100)
PS Lesson: rounding (multi-step)
Assessment
Pause & Stretch: re-assessment & deepening as required

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Learning Steps
Prior learning check & remediation/deepening of prior
Describe positions using coordinates
Plot coordinates
Translate on a grid
Describe a translation
PS Lesson: position & direction (logic)
Assessment
Pause & Stretch: re-assessment & deepening as required

Y4 Maths Plan
Addition & Subtraction

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Learning Steps
Prior learning check & remediation/deepening of prior
'Make 10 and then' to 100
Place value addition TO + TO
Near doubles addition TO + TO
Near 10s addition TO + TO
Partition addition TO + TO
Column addition THTO + THTO
Column addition THTO + THTO
Strategy choice lesson for addition
'Get back to ten and then' to 100
Place value subtraction TO - TO
Near 10s subtraction TO - TO
Partition subtraction TO - TO
Column subtraction THTO - THTO
Column subtraction THTO - THTO
Strategy choice lesson for subtraction
PS Lesson: columnar addition & subtraction (multi-step)
Missing Number Equations
Balancing Number Equations
Approximation Check
Inverse Checks
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: trial & improvement

Y4 Maths Plan
Statistics

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Learning Steps
Prior learning check & remediation/deepening of prior
Interpret pictograms with different scales
Interpret bar charts with different scales
Interpret line charts
Assessment
Pause & Stretch: re-assessment & deepening as required

Y4 Maths Plan
Perimeter

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Learning Steps
Prior learning check & remediation/deepening of prior
Polygon v not
Regular v Irregular polygons
What is perimeter?
Calculating Rectilinear Perimeter (2L + 2B)
Calculating Rectilinear Perimeter 2(L + B)
Decision making on calculating perimeter
Finding unknow lengths using known lengths and perimeter
Calculating Regular Shape Perimeter
PS Lesson: perimeter (working backwards)
Assessment
Pause & Stretch: re-assessment & deepening as required

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Learning Steps
Prior learning check & remediation/deepening of prior
Factors, product and bar models
Dividend, divisor, quotient & bar models
Repeated Addition x3 facts
Commutativity x3
Distribution x3
Numerical patterns in the x3 table
Inverse relationships x3
PS Lesson: x3 multiplication tables (rules and patterns)
Derive x6 facts from x3 facts
Repeated Addition x6 facts
Commutativity x6
Distribution x6
Numerical patterns in the x6 table
Inverse relationships x6
PS Lesson: x6 multiplication tables (real-life word)
Derive x9 facts from x3 facts
Repeated Addition x9 facts
Commutativity x9
Distribution x9
Numerical patterns in the x9 table
Inverse relationships x9
PS Lesson: x9 multiplication tables (real-life word)
divisibility rules for divisors of 3
divisibility rules for divisors of 6
divisibility rules for divisors of 9
PS Lesson: multiplication tables (rules and patterns)
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: working collaboratively

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Learning Steps
Prior learning check & remediation/deepening of prior
Repeated Addition x7 facts
Commutativity x7
Distribution x7
Numerical patterns in the x7 table
Inverse relationships x7
PS Lesson: x7 multiplication tables (rules and patterns)
Assessment
Pause & Stretch: re-assessment & deepening as required

Y4 Maths Plan
Multiplicative Relationships

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Learning Steps
Prior learning check & remediation/deepening of prior
Multiplying by a 1-digit number by 10 – moving digits
Multiplying a TO by 10 moving digits
Divide 2-digit multiple of 10 by 10
Divide 3-digit multiple of 10 by 10
Multiply 1-digit number by 100
Multiply a d-git number by 100
Divide 3-digit multiple of 100 by 100
Divide 4-digit multiple of 100 by 100
Practice lesson multiplying and dividing by 10/100
PS Lesson: multiplying and dividing by powers of 10 (open-ended)
Using known facts multiplication – scale of 10
Using known facts multiplication – scale of 100
Practice Lesson – scaled multiplication facts
Using know facts division – scale of 10
Using know facts division – scale of 100
Practice Lesson – scaled multiplication & division facts
PS Lesson: scaled multiplication and division facts (rules and patterns)
Partition Mental Strategy
Double & half mental strategy
Strategy Choice
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: working systematically

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Learning Steps
Prior learning check & remediation/deepening of prior
Order unit fractions by size of denominator
Non-unit fractions
Compare and order non-unit fractions with same denominator
Compare and order non-unit fractions with same numerator
PS Lesson: fractional sense <1 (real-life word)
Understand mixed numbers
Understand improper fractions
Mixed into improper
improper into mixed
Compare and order mixed numbers using fractional sense: same whole and unit fraction
Compare and order mixed when wholes are different
Compare and order mixed with same wholes and non-unit
PS Lesson: fractional sense >1 (visual)
Represent non-unit fractions of amounts as bar models
Represent non-unit fractions of amounts as division/multiplication equations
Practice Lesson: fractions of amounts (non-unit)
PS Lesson: fractions of amounts (multi-step)
Add fractions with same denominator (beyond whole)
Add on fractions beyond whole using a number line
Add involving mixed numbers (2 lessons)
Subtract fractions from whole by converting whole to a fraction
Subtract involving mixed numbers (2 lessons)
Practice Lesson: add and subtract fractions
PS Lesson: add and subtract fractions (open-ended)
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: finding starting points

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Learning Steps
Prior learning check & remediation/deepening of prior
Complete a symmetrical pattern
Compose symmetrical shapes from two congruent shapes
Folding for symmetry in 2d shapes
Lines of symmetry using a mirror
Reflect polygons over a line of symmetry
Identify quadrilaterals
Classify and sort quadrilaterals
PS Lesson: symmetry (rules and patterns)
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: visualising

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Learning Steps
Prior learning check & remediation/deepening of prior
Tell the time on an analogue clock using Roman Numerals
Read the time on digital clocks
12 hour 24 hours conversion
12 hour 24 hours conversion
PS Lesson: 24 hour time (real-life)
Assessment
Pause & Stretch: re-assessment & deepening as required
PS Skills Lesson: generalising & conjecturing