

Place Value
Addition & Subtraction
Statistics
Length
Summative Assessment
Right Angles
2, 4, 8 Multiplication Tables
Unit Fractions
Summative Assessment
Non-Unit Fraction
Parallel & Perpendicular Sides in Polygons
Time
Mass & Capacity
Summative Assessment
Consolidation

Maths Curriculum Sequence Year 3

Number, Place Value, Calculations, Fractions
Geometry
Measurement
Statistics
Assessment

Y3 Maths Plan
Place Value

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

Represent numbers to HTO
Partition numbers to HTO
Value of digits to HTO
Number Line to HTO

PS Lesson: value of digits (more than one possibility)

1 more, 10 more, 100 more
1 less, 10 less, 100 less
Compare numbers to HTO
Order numbers to HTO

PS Lesson: compare and order (logic)

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3 Maths Plan
Addition & Subtraction

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

- Addition – Expanded – Concrete – No Regroup
- Addition – Expanded - Pictorial – No Regroup
- Addition – Expanded – Abstract - No Regrouping
- Addition – Expanded – Concrete – 1 piece of Regroup
- Addition – Expanded - Pictorial – 1 piece of Regroup
- Addition – Expanded – Abstract – 1 piece of Regrouping
- Addition – Expanded – Abstract - 2 pieces of Regroup

PS Lesson: addition (real-life word)

- Subtraction – Expanded – Concrete – No Exchange
- Subtraction – Expanded – Pictorial – No Exchange
- Subtraction – Expanded – Abstract – No Exchange
- Subtraction – Expanded – Concrete – 1 piece of Exchange
- Subtraction – Expanded – Pictorial – 1 piece of Exchange
- Subtraction – Expanded – Abstract – 1 Piece of Exchange
- Subtraction – Expanded – Abstract – 2 Pieces of Exchange
- Mixed addition and subtraction practice

PS Lesson: addition and subtraction (more than one possibility)

- Approximation to check
- Inverse operations to check

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: trial and improvement

Y3 Maths Plan
Statistics

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

Interpret & Draw Pictograms

Interpret & draw bar charts

PS Lesson: statistics (working backwards)

Two-way tables

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3 Maths Plan

Length

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

Measure in m and cm including Measure in metres practical
measure in cm and mm
Equivalent lengths
Compare lengths

PS Lesson: length (more than one possibility)

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3 Maths Plan
Right Angles

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

Rotate two lines around a fixed point to make different sized angles

Draw triangles and quadrilaterals and identify vertices

A right angle is a 'square corner' and identify them

A rectangle is a 4-sided polygon with four right angles

A square is a rectangle in which the four sides are equal length

Cut rectangles and squares on the diagonal and investigate the shapes they make

Join four right angles at a point using different right-angled polygons

Investigate and draw other polygons with right angles

PS Lesson: right angles (visual problems)

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: working collaboratively

Y3 Maths Plan
2, 4, 8 Times Tables

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

Factors, product and bar models

Dividend, divisor, quotient & bar models

Derive x4 facts from x2 facts

Repeated Addition x4 facts

Commutativity x4

Distribution x4

Numerical patterns in the x 4 table

Inverse relationships x4

PS Lesson: x4 multiplication tables (rules and patterns)

Derive x8 facts from x4 facts

Repeated Addition x8 facts

Commutativity x8

Distribution x8

Numerical patterns in the x8 table

Inverse relationships x8

PS Lesson: x8 multiplication tables (real-life word)

explain and use the relationship between multiples of 2, 4 and multiples of 8

divisibility rules for divisors of 2 and 4

divisibility rules for divisors of 8

scale known multiplication facts by 10

Pupils scale division derived from multiplication facts by 10

PS Lesson: multiplication tables (rules and patterns)

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: working systematically

Y3 Maths Plan
Unit Fractions

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps**Prior learning check & remediation/deepening of prior**

- Wholes, equal parts and unequal parts
- Identify equal parts when they don't look the same
- Identify unit fractions
- Match fractions to division
- Match fractions to fraction notation
- Order unit fractions by size of denominator
- Order unit fractions on a number line
- Repeated addition of unit fractions to form a whole
- Find unit fractions of amounts 1
- Find unit fractions of amounts 2

PS Lesson: unit fractions (visual problems)

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: finding starting points

Y3 Maths Plan
Non-Unit Fractions

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

- Repeated addition of unit fractions to form wholes (revisit)
- Repeated addition of unit fractions to form non-unit fractions
 - Identify non-unit fractions
 - Non-unit fraction or not? Equality
 - Match fractions to division
 - Match fractions to fraction notation
 - Order non-unit fractions on a number line
 - Order non-unit fractions with the same denominator
 - Order non-unit fractions with the same numerator
 - Add fractions with the same denominator
 - Subtract fractions with the same denominator
- Addition and subtraction of fractions with the same denominator as inverse operations
- Subtract a fraction from the whole by converting the whole into matching denominator

PS Lesson: non-unit fractions (open-ended)

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3 Maths Plan

Parallel & Perpendicular Sides in Polygons

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

Horizontal and vertical

Parallel lines and sides including geoboards & geostrips

Join polygons to make new polygons with parallel sides (bar modelling)

Quadrilaterals and parallel sides

Perpendicular lines and sides including geoboards & geostrips

Join polygons to make new polygons with perpendicular sides (bar modelling)

Quadrilaterals and parallel sides

PS Lesson: parallel & perpendicular (visual problems)

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: visualising

Y3 Maths Plan

Time

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

Time to 5 minutes

Time to 5 minutes

Read digital clocks

Read digital clocks

am and pm

am and pm

PS Lesson: reading time (visual)

Calculate durations from given starts and ends

Calculate end times from given start and duration

Calculate start times from given ends and durations

PS Lesson: time duration problems (real-life word)

Years, months and days

Days and hours

Minutes and seconds

PS Lesson: units of time (working backwards)

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3 Maths Plan
Mass & Capacity

Do **NOT** start the unit until **ALL** children have passed the prior learning check. These are **NOT** lessons but learning steps and each one takes as long as it takes for **ALL** children to be secure.

Do **NOT** move on to the next learning step until **ALL** children can do it. The unit takes as long as it takes for **ALL** children to pass the end of block assessment. Do **NOT** move onto the next unit until **ALL** children have passed the end of block assessment.

Learning Steps

Prior learning check & remediation/deepening of prior

Measure mass

Equivalence in mass

Compare mass

Add and subtract mass

PS Lesson: mass (open-ended)

Measure capacity & volume

Equivalence capacity & volume

Compare capacity & volume

Add and subtract capacity & volume

PS Lesson: capacity (real-life word)

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: conjecturing & generalising