

## Y3 Learning Sequence

### Adding & Subtracting Across 10

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

- Add three addends
- Add three addends efficiently
- Add through 10 practically and pictorially
- Add through 10 abstractly
- Subtract through 10 by splitting the subtrahend practically and pictorially
- Subtract through 10 by splitting the subtrahend abstractly
- Subtract through 10 by splitting the minuend practically and pictorially
- Subtract through 10 by splitting the minuend abstractly
- Mixed adding & subtracting through 10 practice

**PS Lesson:** bridging 10 (more than one possibility)

##### Assessment

**Pause & Stretch:** re-assessment & deepening as required

## Y3 Learning Sequence

### Numbers to 1,000

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

Composition of 100  
Represent numbers to 1,000  
Partition numbers to 1,000  
Value of digits to 1,000  
Number line to 1,000  
1 more, 10 more, 100 more  
1 less, 10 less, 100 less

##### PS Lesson: place value to 1,000 (more than one possibility)

Compare numbers to 1,000  
Order numbers to 1,000

##### PS Lesson: compare & order (working backwards)

Measure length and height from zero using whole metres and cm  
Measure length and height from zero using mm and cm  
Equivalent lengths  
Compare lengths

##### PS Lesson: length (real-life word)

Count forwards and backwards in multiples of 2, 20, 5, 50 and 25  
Measure mass from zero up to 1kg using grams  
Measure mass from zero above 1kg using whole kg and grams  
Measure volume from zero up to 1 litre using ml  
Measure volume from zero above 1 litre using whole litres and ml

##### PS Lesson: mass & capacity (real-life word)

##### Assessment

##### Pause & Stretch: re-assessment & deepening as required

##### PS Skills Lesson: trial & improvement

## Y3 Learning Sequence

### Right Angles

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

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

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

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

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 Learning Sequence

### Mental Addition & Subtraction

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

- Add 10/100 to 2 and 3-digit numbers
- Add two 2-digit or 3-digit numbers using partitioning
- Add two 2-digit or 3-digit numbers using adjusting
- Add two 2-digit or 3-digit numbers using redistribution
- Add two 2-digit or 3-digit numbers using near doubles
- Addition strategy choice
- Subtract 10/100 from 2 and 3-digit numbers
- Subtract two 2-digit or 3-digit numbers using partitioning
- Subtract two 2-digit or 3-digit numbers by finding the difference
- Subtraction strategy choice
- Fact families
- Missing number equations (practising mental methods)

**PS Lesson:** rearranging equations (multi-step)

##### Assessment

**Pause & Stretch:** re-assessment & deepening as required

**PS Skills Lesson:** working systematically

## Y3 Learning Sequence

### Column Addition

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

Addition of 2-digit numbers: no regrouping

Addition of 3-digit numbers: no regrouping

Practical lesson - regrouping

Addition of 2-digit regrouping 1s

Addition of 3-digit regrouping 1s

Addition of 3-digit numbers: regrouping 10s

Addition of 3-digit numbers: regrouping 10s and 1s

Addition of 3-digit numbers: VF, Think, GDS

**PS Lesson:** column addition (real-life, multi-step)

Addition & Charts

##### Assessment

**Pause & Stretch:** re-assessment & deepening as required

**PS Skills Lesson:** finding starting points

## Y3 Learning Sequence

### 2, 4, 8 Times Tables

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

- x4 counting & repeated addition
- x4 deriving facts from x2 table
- x4 using adjacent facts
- x4 commutative property
- x4 distributive property (including beyond know facts)
  - x4 inverse facts
  - x4 rules of divisibility
- x8 counting & repeated addition
- x8 deriving facts from x4 table
- x8 using adjacent facts
- x8 commutative property
- x8 distributive property (including beyond know facts)
  - x8 inverse facts
  - x8 rules of divisibility
- Scaled multiplication facts
- Scaled division facts

##### Assessment

**Pause & Stretch:** re-assessment & deepening as required

## Y3 Learning Sequence

### Column Subtraction

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

Subtraction of 2-digit and 3-digit numbers: no exchanging

Subtraction of 2-digit numbers: exchanging 1s

Subtraction of 3-digit numbers: exchanging 1s

Subtraction of 3-digit numbers: exchanging 10s

Subtraction of 3-digit numbers: exchanging 10s and 1s

Subtraction of 3-digit numbers: exchanging from zero

Subtraction of 3-digit numbers: VF, Think, GDS

##### PS Lesson: column subtraction (real-life)

Subtraction strategy choice

Subtraction & Charts

##### Assessment

##### Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: visualising

## Y3 Learning Sequence

### Fractions

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

Wholes, equal parts and unequal parts

Match fractions to division

Fraction notation for unit fractions

Order unit fractions by size of denominator

Find unit fractions of amounts

Find unit fractions of amounts varied practice

##### **PS Lesson:** unit fractions (visual problems)

Repeated addition of unit fractions to form non-unit fractions

Repeated addition of unit fractions to form a whole

Identify non-unit fractions

Order non-unit fractions with the same denominator

Order non-unit fractions with the same numerator

##### **PS Lesson:** non-unit fractions (rules and patterns)

Add fractions with the same denominator

Add fractions with the same denominator – varied practice & think

Subtract fractions with the same denominator

Subtract fractions with the same denominator – varied practice & think

Subtract a fraction from the whole by converting the whole into matching denominator

Subtract a fraction from the whole – varied practice & think

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

##### **Assessment**

##### **Pause & Stretch: re-assessment & deepening as required**

**PS Skills Lesson:** finding starting points



## Y3 Learning Sequence

### Parallel & Perpendicular Sides in Polygons

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

Horizontal and vertical

Parallel lines

Quadrilaterals and parallel sides

Perpendicular lines

Quadrilaterals and perpendicular sides

**PS Lesson:** parallel & perpendicular (logic)

##### Assessment

**Pause & Stretch:** re-assessment & deepening as required

**PS Skills Lesson:** visualising

## Y3 Learning Sequence

### Time

#### Learning Steps

##### Prior learning check & remediation/deepening of prior

- Match analogue o'clock times to digital displays
- Read analogue o'clock times as digital time
- Match analogue 5 minute times to digital displays
- Read analogue 5 minute times as digital time
- Match digital time to spoken analogue (half past and quarter past)
- Match digital time to spoken analogue (five minutes past)
- Match digital time to spoken analogue (quarter to)
- Match digital time to spoken analogue (five minutes to)
- Read analogue time using spoken language

##### PS Lesson: reading time (visual)

- Direction of turns
- Magnitude of turns
- Direction & magnitude of turns together
- Time durations: given start and finish
- Time durations: given start and duration
- Time durations: given finish and duration
- Mixed durations practice

##### Assessment

**Pause & Stretch:** re-assessment & deepening as required

**PS Skills Lesson:** conjecture & generalising