

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 pictorially

Add through 10 abstractly

Subtract through 10 by splitting the subtrahend pictorially

Subtract through 10 by splitting the subtrahend abstractly

Subtract through 10 by splitting the minuend 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

PS Lesson: mental addition strategies

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

Addition and subtraction can be used to describe the same additive fact

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 and 3-digit numbers: no 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: mixed practice

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

PS Lesson: column addition (real-life)

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
- x4 inverse facts
- x4 rules of divisibility and patterns

PS Lesson: x4 facts (more than one possibility)

- x8 counting & repeated addition
- x8 deriving facts from x4 table
- x8 using adjacent facts
- x8 commutative property
- x8 distributive property
- x8 inverse facts
- x8 rules of divisibility and patterns

PS Lesson: x8 facts (more than one possibility)

- 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 and 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: zero in middle of minuend
- Subtraction of 3-digit numbers: mixed practice
- Subtraction of 3-digit numbers: VF, Think, GDS

PS Lesson: column subtraction (real-life)

- Missing digit column subtraction
- Approximation checks
- Inverse checks
- Missing number equations
- Balancing number equations

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

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: conjecture & generalising

Y3 Learning Sequence

Time

Learning Steps

Prior learning check & remediation/deepening of prior

O'clock

Half-past

Quarter past

Quarter to

O'clock, half-past, quarter past & to mixed practice

5 minutes past intervals

5 minutes to intervals

Time to 5 minutes mixed practice

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

PS Lesson: time durations (working backwards)

Assessment

Pause & Stretch: re-assessment & deepening as required