

Y3-4 Learning Sequence

Adding & Subtracting Across 10

This is an 'over teach & deepen' unit that is covered in both Year A and Year B.

Year A has a measures theme for 'varied fluency' and 'think' tasks.

Year B has a statistics theme for 'varied fluency' and 'think' tasks.

Those who secured understanding in their first year of the unit, deepen in the second year.

Those who did not secure, revisit the unit in the second year but with a different theme.

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

Y3-4 Learning Sequence

Numbers to 10,000

This is an 'over teach & deepen' unit that is covered in both Year A and Year B.

Year A has a statistics theme for 'varied fluency' and 'think' tasks.

Year B has a measures theme for 'varied fluency' and 'think' tasks.

Those who secured understanding in their first year of the unit, deepen in the second year.

Those who did not secure, revisit the unit in the second year but with a different theme.

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 lines to 1,000

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

Measure length in m and cm

Measure length in mm and cm

Equivalent lengths

Compare lengths

PS Lesson: length (real-life word)

Composition of 1,000

Represent numbers to 10,000

Partition numbers to 10,000

Value of digits to 10,000

Number lines to 10,000

1, 10, 100, 1000 more & less

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

Compare two numbers using $<$ $>$ $=$

Order sets of numbers

PS Lesson: order and compare (logic)

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)

Round to nearest 10

Round to nearest 100

Round to nearest 1,000

Round to the nearest 10, 100 & 1,000

PS Lesson: rounding (working backwards)

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3-4 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

Mental addition practice – VF, Think

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

Mental subtraction practice – VF, Think

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

Y3-4 Learning Sequence

3, 6, 9 and 7 Times Tables

Learning Steps

Prior learning check & remediation/deepening of prior

- x3 counting & repeated addition
- x3 using adjacent facts
- x3 distributive property
- x6 counting & repeated addition
- x6 deriving facts from x3 table
- x6 using adjacent facts
- x6 distributive property
- x9 counting & repeated addition
- x9 deriving facts from x3 and x6 table
- x9 using adjacent facts
- x9 distributive property
- x7 counting & repeated addition
- x7 using adjacent facts
- x7 distributive property

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3-4 Learning Sequence

Multiplicative Relationships

This is an 'over teach & deepen' unit that is covered in both Year A and Year B.
Year A has a 'x3,6,9,7' theme.
Year B has a 'x2,4,8' theme.

Learning Steps

Prior learning check & remediation/deepening of prior

Understanding and using Gattegno Charts

Multiplying by 10 moving digits

Multiplying by 100 moving digits

Divide by 10 moving digits

Divide by 100 moving digits

Mixed 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

Using known facts division – scale of 10

Using known facts division – scale of 100

Mixed practice Lesson – scaled multiplication & division facts

PS Lesson: place value and known facts (working backwards)

Interpret a division story with a remainder and represent it as an equation

Division with remainders

Division with remainders VF & Think

When there will and will not be a remainder in a division equation

PS Lesson: interpret remainders (working backwards)

Partition mental multiplication Strategy

Partition Mental multiplication strategy- varied practice

Double & half mental multiplication strategy

Double & half mental multiplication strategy- varied practice

Strategy choice

Partitioning as a mental division strategy

Partitioning as a mental division strategy - varied practice

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3-4 Learning Sequence

Right Angles, Parallel & Perpendicular

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 perpendicular

Investigate and draw other polygons with right angles

PS Lesson: right angles (visual problems)

Horizontal and vertical

Parallel lines

Quadrilaterals and their parallel sides

Perpendicular lines

Quadrilaterals and their perpendicular sides

PS Lesson: parallel & perpendicular (logic)

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3-4 Learning Sequence

Fractions

This is an 'over teach & deepen' unit that is covered in both Year A and Year B.

Year A has a statistics theme for 'varied fluency' and 'think' tasks.

Year B has a measures theme for 'varied fluency' and 'think' tasks.

Those who secured understanding in their first year of the unit, deepen in the second year.

Those who did not secure, revisit the unit in the second year but with a different theme.

For the assessment – pause – stretch lessons for this unit, give Year 3 children the Y3 versions of these lessons and Year 4 children the Y4.

Learning Steps

Prior learning check & remediation/deepening of prior

- Fraction notation for unit fractions
- Order unit fractions by size of denominator
- Find unit fractions of amounts
- 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
- Add fractions with the same denominator
- Subtract fractions with the same denominator
- Subtract a fraction from the whole by converting the whole into matching denominator
- Understand mixed numbers
- Understand mixed numbers on a number line
- Understand improper fractions
- Convert improper fractions into mixed numbers
- Convert mixed numbers into improper fractions
- Compare and order mixed when whole number and the denominator of the fractional part is the same
- Compare mixed numbers when the whole number and the numerator of the fractional part is the same
- Add proper fractions through the whole
- Add mixed numbers not bridging the whole
- Add mixed numbers bridging the whole
- Add mixed numbers using number lines
- Subtract proper fractions from wholes
- Subtract proper fractions from mixed numbers – not bridging the whole
- Subtract proper fractions from mixed numbers – bridging the whole
- Subtract mixed numbers from mixed numbers – not bridging the whole
- Subtract mixed numbers from mixed numbers – bridging the whole
- Find the difference between mixed numbers using number lines

Assessment

Pause & Stretch: re-assessment & deepening as required

Y3-4 Learning Sequence

Time

Learning Steps

Prior learning check & remediation/deepening of prior

O'clock
Half-past
Quarter past
Quarter to
5 minutes past intervals
5 minutes to intervals
Time durations: given start and finish
Time durations: given start and duration
Time durations: given finish and duration
Match analogue time to digital time
Match digital time to spoken analogue time
Use am and pm

Assessment

Pause & Stretch: re-assessment & deepening as required