

Learning Steps

Prior learning check & remediation/deepening of prior

Tenths as decimals
Integers & Tenths As Decimals
Partition numbers with tenths
Compare numbers with tenths
Order numbers with tenths
Bridging the whole when adding with tenths
Mental methods for addition involving tenths – not bridging
Mental methods for addition involving tenths – bridging
Bridging the whole when subtracting with tenths
Mental methods for subtraction involving tenths – not bridging
Mental methods for subtraction involving tenths –bridging
Column addition and subtraction involving tenths
Round numbers with tenths to nearest whole

PS Lesson: tenths (real-life)

hundredths as decimals & partitioning
Compare and order numbers with hundredths + money
Round numbers with hundredths to nearest whole
Round numbers with hundredths to nearest tenth
Column addition and subtraction involving hundredths

PS Lesson: hundredths (more than one possibility)

Thousands as decimals and value of digits & partition
Compare & order numbers with thousandths

Assessment

Pause & Stretch: re-assessment & deepening as required

Y5 Learning Sequence

Negative Numbers

Learning Steps

Prior learning check & remediation/deepening of prior

Negative Numbers Practical

Understand counting through zero into negative numbers including number line in ones

Count through zero in other multiples including number lines

Compare and order numbers including negative numbers

Increases through zero

Decreases through zero

Find the difference

PS Lesson: negative numbers (multi-step)

Read coordinates in all 4 quadrants

Plot coordinates in all 4 quadrants

Translate in all 4 quadrants

Reflect in all 4 quadrants

PS Lesson: coordinates (logic)

Charts involving negative numbers

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: trial & improvement

Y5 Learning Sequence

Short Division & Short Multiplication

Learning Steps

Prior learning check & remediation/deepening of prior

Mental method partition for TO by O multiplication
 2 x 1 column into 3 x 1 into 4 x1 with no regrouping
 2 x 1 column into 3 x 1 into 4 x1 with one regrouping
 2 x 1 column into 3 x 1 into 4 x1 with two regrouping
 2 x 1 column into 3 x 1 into 4 x1 with multiple regrouping
 Short Multiplication Practice Lesson
 Most efficient method – mental v written
 Missing Digit Calculations

PS Lesson: short multiplication (real-life)

Mental method flexible partition for TO ÷ O multiplication
 2 x 1 into 3 x 1 into 4 x1 with no remainder or regrouping
 2 x 1 into 3 x 1 into 4 x1 with remainder at end but no regrouping
 2 x 1 into 3 x 1 into 4 x1 with 1 piece of regrouping
 2 x 1 into 3 x 1 into 4 x1 with more than 1 piece of regrouping
 Short Division Practice Lesson
 Understanding & using remainders
 Most efficient method: mental v written
 Missing Digit Calculations

PS Lesson: short division (multi-step)

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: working collaboratively

Y5 Learning Sequence

Area

Learning Steps

Prior learning check & remediation/deepening of prior

What is area?

Rectangle area counting squares

Rectangle area using formula & squares

Rectangle area using formula

L-shape using formula

More complex compound using formula

Missing lengths

Area using half-squares

PS Lesson: area (investigations)

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: working systematically

Learning Steps

Prior learning check & remediation/deepening of prior

Multiply numbers with decimals by 10, 100, 1000 using moving digits

Divide numbers with decimals by 10, 100, 1000 using moving digits

Convert from larger to smaller metric units

Convert from smaller to larger metric units

Converting units practice lesson

PS Lesson: moving digits for decimals (multi-domain / real-life word / multi-step)

Scaled multiplication facts – 1DP

Scaled multiplication facts – 2DP

Multiplying numbers with 1DP by ones using mental methods

Multiplying numbers with 1DP by ones using written methods

Multiplying numbers with 2DP by ones using written methods

Varied practice and think for multiplying decimals

Scaled division facts – 1DP

Scaled division facts – 2DP

Short division – decimal dividends

Short division – decimal dividends – varied practice

PS Lesson: multiplying & dividing decimals (open-ended)

Assessment

Pause & Stretch: re-assessment & deepening as required

Y5 Learning Sequence

Factors, Multiples & Primes

Learning Steps

Prior learning check & remediation/deepening of prior

What is volume?

Cubes to measure volume

Calculating the volume of cubes and cuboids

Cube numbers

Missing volume measurement problems

Multiplying 3 numbers together using the commutative & distributive properties

Replacing 2-factor multiplication with 3-factor multiplication

PS Lesson: volume (working backwards)

Find all factors of a number

Common factors

Prime numbers & composite numbers

Prime factors

PS Lesson: prime numbers (investigations)

Common multiples

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: finding starting points

Learning Steps

Prior learning check & remediation/deepening of prior

Relationship between repeated addition of unit fractions & multiplication

Relationship between repeated addition of non-unit fractions & multiplication

Multiply a proper fraction by whole within the whole

Multiply fraction by whole beyond the whole

Multiply improper by whole and convert

VF – Think – GDS multiplying proper fractions by whole numbers

Multiply mixed by whole (no crossing whole)

Multiply mixed by whole (crossing whole)

Multiply mixed numbers by wholes – mental or written method required

VF – Think – GDS multiplying mixed numbers by whole numbers

PS Lesson: multiplying fractions (more than one possibility)

Find unit fractions of amounts

Find the whole when a unit fraction and amount are given

Non-unit fractions of amounts (bar model)

Non-unit fractions of amounts (mental methods)

VF – Think – GDS non-unit fractions of amounts

Find a unit fraction from a non-unit fraction

Find the whole from a non-unit fraction (pictorial)

Find the whole from a non-unit fraction (bar model)

Mixed fraction of amount practice

Fractions as operators

PS Lesson: fractions of amounts (multi-domain / real-life word / multi-step)

Equivalent fractions using manipulatives (quarters, eighths and twelfths)

Equivalent fractions using manipulatives (fifths, tenths and thirds)

Using equivalence tables – scaling up

Using equivalence tables – scaling down

PS Lesson: equivalent fractions (rules and patterns)

Fraction-decimal equivalence to tenths

Fraction-decimal equivalence to hundredths

Fraction – Decimal Equivalence

Converting decimals to fractions

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: visualising

Learning Steps

Prior learning check & remediation/deepening of prior

- Classify angles as right, acute, obtuse or reflex
- Order angles where there is a clear visual difference
- Measure acute angles including estimation
- Measure obtuse angles including estimation
- Draw angles
- Draw accurate 2D shapes
- Construct 3D shapes from 3D nets

PS Lesson: nets (visual problems)

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: conjecture & generalising

Learning Steps

Prior learning check & remediation/deepening of prior

Convert 12 hour time into 24 hour time

Convert 24 hour time into 12 hour time

Time duration: given start and finish

Time duration: given start and duration

Time duration: finish and duration

Time Duration: mixed practice

Timetables

Convert from larger to smaller units of time

Convert from smaller to larger units of time

PS Lesson: unit conversions (multi-domain)

Assessment

Pause & Stretch: re-assessment & deepening as required