

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

Y5-6 Learning Sequence

Negative Numbers

Learning Steps

Prior learning check & remediation/deepening of prior

What are negative numbers?

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

Learning Steps

Prior learning check & remediation/deepening of prior

Moving digit multiplication
Convert large metric units to smaller
Moving digit division
Convert small metric units to larger
Converting units practice lesson
Short multiplication no regrouping
Short multiplication one regrouping
Short multiplication two regroupings
Short multiplication multiple regroupings
Short multiplication practice lesson
Multiplying tenths using a written method
Multiplying hundredths using a written method
Multiplying decimals practice lesson
Long multiplication no regrouping
Long multiplication one regrouping
Long multiplication two regroupings
Long multiplication multiple regroupings
Long multiplication practice lesson
Short division no remainders or regrouping
Short division remainder but no regrouping
Short division one regrouping
Short division more than one regrouping
Short division practice lesson
Short division of decimal dividends
Short division of decimal dividends practice lesson
Multiple strings
Long division no remainders 1
Long division no remainders 2
Long division remainders
Long division practice

PS Lesson: long division

Assessment

Pause & Stretch: re-assessment & deepening as required

Y5-6 Learning Sequence

Multiplicative Fraction Structures

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)

Multiply fractions by fractions

Multiply fractions by fractions VF, Think, GDS

Divide a fraction by integer (numerator-divisor match)

Divide any fraction by integer (pictorial method)

Divide any fraction by integer (formal method)

PS Lesson: multiplying and dividing fractions (investigations)

Mixed practice of calculating with fractions

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

Learning Steps

Prior learning check & remediation/deepening of prior

FD equivalence to tenths
FD equivalence to hundredths
FD equivalence and short division
Converting decimals to fractions
What is percentage?
Percentages of amounts multiples of 25%, 50%, 75%
Percentages of amounts 10%
Percentages of amounts multiples of 10%
Percentages of amounts 5%
Percentages of amounts multiples of 5%
Percentages of amounts 1%
Finding percentages of amounts – multiples of 1%
Percentages of amounts – VF, Think, GDS
Most efficient method for percentages
Finding the whole from given percentage/fraction parts
Percentages & pie charts
PS Lesson: percentages (real-life word)
Fractions and percentages as operators
FDP equivalence

Assessment

Pause & Stretch: re-assessment & deepening as required

Y5-6 Learning Sequences
Proportional Reasoning

Learning Steps

Prior learning check & remediation/deepening of prior

Ratio tables
Language of ratio – scaling up
Language of ratio – simplest form
Real-life ratio problems
Recipes
Scale drawings
Scale factors
Miles & Kilometres
Correspondence problems

Assessment

Pause & Stretch: re-assessment & deepening as required

Y5-6 Learning Sequences

Geometric Reasoning

Learning Steps

Prior learning check & remediation/deepening of prior

What is area?
 Rectangle area – counting squares
 Rectangle area -counting squares & formula
 Rectangle area - formula
 L-Shape area
 More complex compound area
 Missing dimensions
 Part squares
 Area of parallelograms
 Area of triangles
 Read coordinates in all 4 quadrants
 Plot coordinates in all 4 quadrants
 Translations
 Reflections
 Classify angles as right, acute, obtuse or reflex
 Order angles where there is a clear visual difference
 Right angles: calculating missing angles
 Straight lines: calculating missing angles
 360° around a point: calculating missing angles
 Triangles: calculating missing angles
 Quadrilaterals: calculating missing angles
 Vertically opposite angles: calculating missing angles
 Read angles on a protractor
 Measure angles with a protractor
 Draw angles with a protractor
 Draw accurate 2D shapes
 Nets of 3D shapes
 Circles

Assessment

Pause & Stretch: re-assessment & deepening as required

PS Skills Lesson: visualising