

Y5-6 Learning Sequences

Numbers to 10,000,000

Learning Steps

Prior learning check & remediation/deepening of prior

- Composition of 10,000
- Composition of 100,000
- Composition of 1,000,000
- Position numbers to 10,000 on a number line
- Position numbers to 100,000 on a number line
- Position numbers to 1,000,000 on a number line
- Count forwards and backwards in powers of ten to 1,000,000
- Represent numbers to 10,000,000
- Partition numbers to 10,000,000
- Value of digits to 10,000,000
- Number lines to 10,000,000
- Compare numbers to 10,000,000 (same PV)
- Compare numbers to 10,000,000 (different PV)
- Order numbers to 10,000,000

PS Lesson: PV to 1,000,000 (all possibilities)

- round any 4-digit number to the nearest 10, 100, 1000
- round up to seven-digit numbers to any power of 10

PS Lesson: rounding (multi-domain)

- Written column addition to 10,000,000
- Written column subtraction to 10,000,000

PS Lesson: column addition & subtraction (multi-step)

Assessment

Pause & Stretch: re-assessment & deepening as required

Y5-6 Learning Sequence

Addition & Subtraction

Learning Steps

Prior learning check & remediation/deepening of prior

- Missing number equations
- Balancing number equations
- Missing numbers in column calculations
- Order of operations (no brackets or orders)
- Order of operations (brackets and orders)

Assessment

Pause & Stretch: re-assessment & deepening as required

Y5-6 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
- Square numbers
- 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

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)

Simplifying Fractions – Basic Fluency

Simplifying Fractions – Practice (VF/Think)

Compare related fractions

Add related fractions not bridging the whole

Add mixed numbers with related fractions not bridging the whole

Add related fractions bridging the whole

Add mixed numbers with related fractions bridging the whole

Practice lesson adding related fractions – VF, Think, GDS

Subtract related fractions not bridging whole

Subtract mixed numbers with related fractions not bridging the whole

Subtract related fractions bridging whole

Subtract mixed numbers with related fractions bridging the whole

Practice lesson subtracting related fractions – VF, Think, GDS

Compare unrelated fractions

Add unrelated fractions not bridging the whole

Add mixed numbers with unrelated fractions not bridging the whole

Add unrelated fractions bridging the whole

Add mixed numbers with unrelated fractions bridging the whole

Practice lesson adding unrelated fractions – VF, Think, GDS

Subtract unrelated fractions not bridging whole

Subtract mixed numbers with unrelated fractions not bridging the whole

Subtract unrelated fractions bridging whole

Subtract mixed numbers with unrelated fractions bridging the whole

Practice lesson subtracting unrelated fractions – VF, Think, GDS

PS Lesson: adding and subtracting fractions (multi-step / multi-domain)

Calculating with fractions -mixed practice

Assessment

Pause & Stretch: re-assessment & deepening as required

Learning Steps

Prior learning check & remediation/deepening of prior

Calculating with fractions -mixed practice

What is percentage?

FDP equivalence

FDP equivalence – VF, Think, GDS

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

Assessment

Pause & Stretch: re-assessment & deepening as required

Y5-6 Learning Sequences

Algebra

Learning Steps

Prior learning check & remediation/deepening of prior

1-step function machines
2-step function machines (output)
2-step function machines (input)
Missing Number Equations
Balancing Number Equations
Sequences
Form expressions
Algebraic expressions
Solve 1-step equations
Solve 2-step equations
Pairs of values

Assessment

Pause & Stretch: re-assessment & deepening as required

Y5-6 Learning Sequences

Statistics

Learning Steps

Prior learning check & remediation/deepening of prior

- Interpret bar charts with different scales
- Interpret dual bar charts
- Interpret line charts
- Interpret dual line charts
- Interpret pie charts using angles, fractions and percentages
- The relationships between the mean and sharing equally
- Calculate the mean
- Explain how the mean changes when the total quantity or number of values changes
- Explain how to calculate the mean when one of the values in the data set is zero or missing
- Explain when the mean is not an appropriate representation of a set of data

Assessment

Pause & Stretch: re-assessment & deepening as required