#theJSway

Year 5 – Small steps

Autumn Term

Place Value

Step 1 - Roman numerals to 1,000
Step 2 - Numbers to 10,000
Step 3 - Numbers to 100,000
Step 4 - Numbers to 1,000,000
Step 5 - Read and write numbers to 1,000,000
Step 6 - Powers of 10
Step 7 - 10/100/1,000/10,000/100,000 more or less
Step 8 - Partition numbers to 1,000,000
Step 9 - Number line to 1,000,000
Step 10 - Compare and order numbers to 100,000
Step 11 - Compare and order numbers to 1,000,000
Step 12 - Round to the nearest 10, 100 or 1,000
Step 13 - Round within 100,000
Step 14 - Round within 1,000,000

Addition & Subtraction

Step 1 - Mental strategies
Step 2 - Add whole numbers with more than four digits
Step 3 - Subtract whole numbers with more than four digits
Step 4 - Round to check answers
Step 5 - Inverse operations (addition and subtraction)
Step 6 - Multi-step addition and subtraction problems
Step 7 - Compare calculations
Step 8 - Find missing numbers

Multiplication & Division A

Step 1 - Multiples
Step 2 - Common multiples
Step 3 - Factors
Step 4 - Common factors
Step 5 - Prime numbers
Step 6 - Square numbers
Step 7 - Cube numbers
Step 8 - Multiply by 10, 100 and 1,000
Step 9 - Divide by 10, 100 and 1,000
Step 10 - Multiples of 10, 100 and 1,000

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Year 5 – Small steps

Fractions A

Step 1 - Find fractions equivalent to a unit fraction
Step 2 - Find fractions equivalent to a non-unit fraction
Step 3 - Recognise equivalent fractions
Step 4 - Convert improper fractions to mixed numbers
Step 5 - Convert mixed numbers to improper fractions
Step 6 - Compare fractions less than 1
Step 7 - Order fractions less than 1
Step 8 - Compare and order fractions greater than 1
Step 9 - Add and subtract fractions with the same denominator
Step 10 - Add fractions within 1
Step 11 - Add fractions with total greater than 1
Step 12 - Add to a mixed number
Step 13 - Add two mixed numbers
Step 14 - Subtract fractions
Step 15 - Subtract from a mixed number
Step 16 - Subtract from a mixed number – breaking the whole
Step 17 - Subtract two mixed numbers

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Year 5 – Small steps

Spring Term

Multiplication & Division B

Step 1 - Multiply up to a 4-digit number by a 1-digit number
Step 2 - Multiply a 2-digit number by a 2-digit number (area model)
Step 3 - Multiply a 2-digit number by a 2-digit number
Step 4 - Multiply a 3-digit number by a 2-digit number
Step 5 - Multiply a 4-digit number by a 2-digit number
Step 6 - Solve problems with multiplication
Step 7 - Short division
Step 8 - Divide a 4-digit number by a 1-digit number
Step 9 - Divide with remainders
Step 10 - Efficient division
Step 11 - Solve problems with multiplication and division

Fractions B

Step 1 - Multiply a unit fraction by an integer
Step 2 - Multiply a non-unit fraction by an integer
Step 3 - Multiply a mixed number by an integer
Step 4 - Calculate a fraction of a quantity
Step 5 - Fraction of an amount
Step 6 - Find the whole
Step 7 - Use fractions as operators

Decimals & Percentages

Step 1 - Decimals up to 2 decimal places
Step 2 - Equivalent fractions and decimals (tenths)
Step 3 - Equivalent fractions and decimals (hundredths)
Step 4 - Equivalent fractions and decimals
Step 5 - Thousandths as fractions
Step 6 - Thousandths as decimals
Step 7 - Thousandths on a place value chart
Step 8 - Order and compare decimals (same number of decimal places)
Step 9 - Order and compare any decimals with up to 3 decimal places
Step 10 - Round to the nearest whole number
Step 11 - Round to 1 decimal place
Step 12 - Understand percentages
Step 13 - Percentages as fractions
Step 14 - Percentages as decimals
Step 15 - Equivalent fractions, decimals and percentages

Measurement: Perimeter & Area

Step 1 - Perimeter of rectangles
Step 2 - Perimeter of rectilinear shapes
Step 3 - Perimeter of polygons
Step 4 - Area of rectangles
Step 5 - Area of compound shapes
Step 6 - Estimate area

Year 5 – Small steps

Statistics

Step 1 - Draw line graphs
Step 2 - Read and interpret line graphs
Step 3 - Read and interpret tables
Step 4 - Two-way tables
Step 5 - Read and interpret timetables

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Year 5 – Small steps

Summer Term

Geometry: Shape

Step 1 - Understand and use degrees
Step 2 - Classify angles
Step 3 - Estimate angles
Step 4 - Measure angles up to 180°
Step 5 - Draw lines and angles accurately
Step 6 - Calculate angles around a point
Step 7 - Calculate angles on a straight line
Step 8 - Lengths and angles in shapes
Step 9 - Regular and irregular polygons
Step 10 - 3-D shapes

Geometry: Position & Direction

Step 1 - Read and plot coordinates
Step 2 - Problem solving with coordinates
Step 3 - Translation
Step 4 - Translation with coordinates
Step 5 - Lines of symmetry
Step 6 - Reflection in horizontal and vertical lines

Decimals

Step 1 - Use known facts to add and subtract decimals within 1
Step 2 - Complements to 1
Step 3 - Add and subtract decimals across 1
Step 4 - Add decimals with the same number of decimal places
Step 5 - Subtract decimals with the same number of decimal places
Step 6 - Add decimals with different numbers of decimal places
Step 7 - Subtract decimals with different numbers of decimal places
Step 8 - Efficient strategies for adding and subtracting decimals
Step 9 - Decimal sequences
Step 10 - Multiply by 10, 100 and 1,000
Step 11 - Divide by 10, 100 and 1,000
Step 12 - Multiply and divide decimals – missing values

Negative Numbers

Step 1 - Understand negative numbers
Step 2 - Count through zero in 1s
Step 3 - Count through zero in multiples
Step 4 - Compare and order negative numbers
Step 5 - Find the difference

Converting Units

Step 1 - Kilograms and kilometres
Step 2 - Millimetres and millilitres
Step 3 - Convert units of length
Step 4 - Convert between metric and imperial units
Step 5 - Convert units of time
Step 6 - Calculate with timetables

Year 5 – Small steps

Measurement: Volume

Step 1 - Cubic centimetres
Step 2 - Compare volume
Step 3 - Estimate volume
Step 4 - Estimate capacity