

Autumn Term

Year 5 – 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

Year 5 – Addition and 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

Year 5 – Multiplication and Division

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

Year 5 - Fractions

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

Spring Term

Year 5 – Multiplication and 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

Year 5 – 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

Year 5 – Decimals and 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 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

Year 5 – Perimeter and 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 – 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

Summer Term

Year 5 – 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 3D shapes

Year 5 – Position and 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

Year 5 – 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 1000

Step 11 Divide by 10, 100 and 1000

Step 12 Multiply and divide decimals – missing values

Year 5 – 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

Year 5 – 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 – Volume

Step 1 Cubic centimetres

Step 2 Compare volume

Step 3 Estimate volume

Step 4 Estimate capacity