Year 5 Maths Autumn

Place Value
Roman Numerals to 1000, Read and write numbers to 1,000,000
10/100/1,000/10,000/100,000 more or less
Partition numbers to 1,000,000, Compare and order numbers to 1,000,000
Round to the nearest 10, 100 or 1,000

Addition and Subtraction
Mental strategies, Add and subtract whole numbers with more than four digits
Round to check answers, Using inverse operations
Multi-step addition and subtraction problems
Comparing calculations, Finding missing numbers in calculations

Multiplication and Division Unit A
Multiples, common multiples and factors. Prime, square and cube numbers
Multiply and divide by 10, 100 and 1,000
Multiples of 10, 100 and 1,000

Fractions Unit A
Find fractions equivalent to a unit and non-unit fraction, Recognise equivalent fractions
Convert improper fractions to mixed numbers and vice versa.
Compare and order fractions less than 1, Compare and order fractions greater than 1
Add and subtract fractions with the same denominator
Add and subtract two mixed numbers

Spring

Multiplication and Division Unit B
Multiply up to a 4-digit number by a 1 and 2 digit number
Multiply a 2-digit, 3-digit and 4-digit number by a 2-digit number
Solve problems with multiplication
Divide a 4-digit number by a 1-digit number, Divide with remainders

Fractions Unit B
Multiply a unit and non-unit fraction by an integer
Multiply a mixed number by an integer, Calculate a fraction of a quantity

Decimals and Percentages
Equivalent fractions and decimals, Thousandths as fractions and decimals
Order and compare any decimals with up to 3 decimal places

Decimals and Percentages
Round to the nearest whole number, **Round to 1 decimal place**

Perimeter and Area
Perimeter of rectangles and rectilinear shapes, Perimeter of polygons
Area of rectangles and compound shapes, Estimate area

Statistics
Draw line graphs, Read and interpret line graphs
Read and interpret tables, Read and interpret timetables

Summer

Shape
Understand and use degrees, Classify and estimate angles
Measure angles up to 180, Draw lines and angles accurately
Calculate angles around a point and a straight line
Regular and irregular polygons, 3-D shapes

Position and Direction
Read and plot coordinates, Problem solving with coordinates
Translation, Lines of symmetry
Reflection in horizontal and vertical lines

Decimals
Use known facts to add and subtract decimals within and across 1
Add and Subtract decimals

Decimals
Decimal sequences
Multiply and divide by 10, 100 and 1,000

Negative Numbers
Understand negative numbers, Count through zero in 1s
Compare and order negative numbers, Find the difference

Converting Units
Kilograms and kilometres, Millimetres and millilitres
Convert between metric and imperial units
Convert units of time, Calculate with timetables

Volume
Cubic centimetres, Compare and estimate volume
Estimate capacity