

Year 5 Pathway Autumn

Autumn	Number Place value	Number Addition and subtraction	Number Multiplication and division A	Number Fractions A
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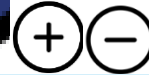
Place Value



Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals
 Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit
 Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000
 Solve number problems and practical problems involving the above
 Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000



Addition and Subtraction



Add and subtract numbers mentally with increasingly large numbers
 Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction)
 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
 Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
 Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Multiplication and Division A



Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
 Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes
 Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
 Establish whether a number up to 100 is prime and recall prime numbers up to 19
 Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
 Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000
 Multiply and divide numbers mentally, drawing upon known facts

Fractions A $\frac{1}{3}$

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
 Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number
 Compare and order fractions whose denominators are all multiples of the same number
 Add and subtract fractions with the same denominator, and denominators that are multiples of the same number

Number and Place value	Multiplication and division	Measure	Position and direction	Shape	Fractions
Powers of ten	Efficient written method Factor pairs Composite, prime, prime factor, square numbers, cubed numbers Formal written method	Volume Imperial measures/units Metric measures/units	Reflex angles Dimensions	Regular and irregular polygons	Proper fraction, improper fractions, mixed numbers Percentage Half Quarter Fifths Ratio and proportion