

# Year 6 Pathway Autumn

Autumn	Number <b>Place value</b>	Number <b>Addition, subtraction, multiplication and division</b>	Number <b>Fractions A</b>	Number <b>Fractions B</b>	Measurement <b>Converting units</b>
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## Place Value



Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit

Solve number and practical problems that involve the above

Round any whole number to a required degree of accuracy

Use negative numbers in context, and calculate intervals across zero



## Fractions A



Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

Compare and order fractions, including fractions  $> 1$

Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

Identify common factors, common multiples and prime numbers

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Solve problems involving addition, subtraction, multiplication and division

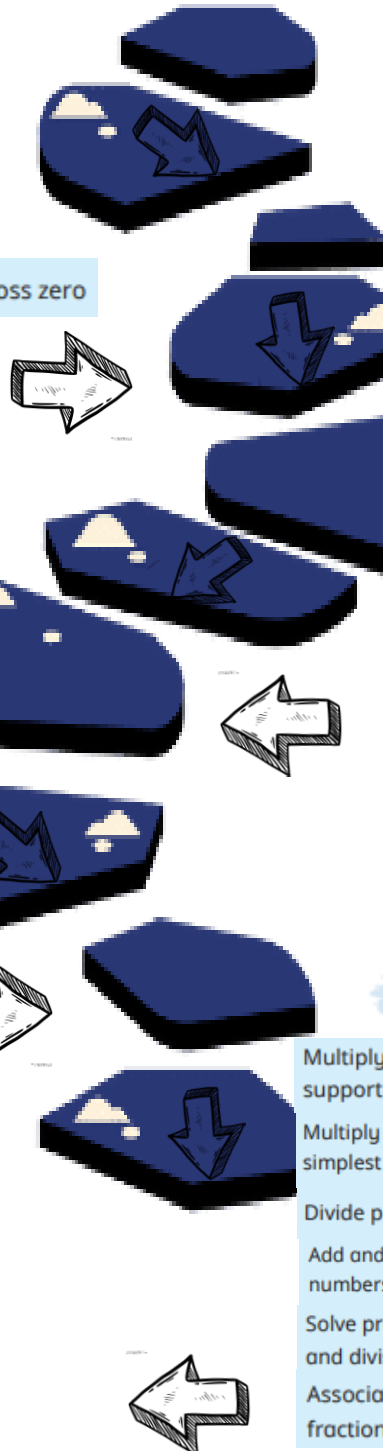
Assessment:  
Test:

## Converting Units



Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate

Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places



**+** **-** Addition and Subtraction

**×** **÷** Multiplication and division

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why  
Solve problems involving addition, subtraction, multiplication and division

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Identify common factors, common multiples and prime numbers

Multiply multi-digit numbers up to four digits by a 2-digit whole number using the formal written method of long multiplication  
Perform mental calculations, including with mixed operations and large numbers

Divide numbers up to four digits by a 2-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

Use their knowledge of the order of operations to carry out calculations involving the four operations

## Fractions B $\frac{1}{3}$

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams (Y5)

Multiply simple pairs of proper fractions, writing the answer in its simplest form

Divide proper fractions by whole numbers

Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

Solve problems involving addition, subtraction, multiplication and division

Associate a fraction with division and calculate decimal fraction equivalents

Number and Place value	Addition, subtraction, multiplication and division	Geometry (position and direction and properties of shape)	Fractions, decimals and percentages	Algebra	Data/Statistics
Numbers to 10 million	Order of Operations Bidmas Common factors Common multiples	Four quadrants Vertically opposite (angles) Circumference Radius Diameter	Degree of accuracy Simplify	Linear number Sequence Substitute Variables Symbol Known values	Mean Pie chart Construct