

# Year 6 Sequenced Maths Journey



Intent . . . We Can, We Will

ALL Children Make  
Exceptional Progress



Literacy is the Key  
to Unlocking Learning



Fun with Memorable  
Moments



Feeling Safe and  
Ready to Learn



Empowered and  
Autonomous



Kind to Self and  
Others



All Pupils



Hundreds	Tens	Ones
H	T	O



## Place Value

Understand numbers to one million.

Understand numbers to ten million.

Read and write numbers to ten million

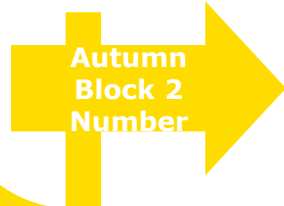
Identify integers that are 10,100,1000 times the size

Understand number lines up to ten million

Compare and order any integers

Round any integer

Understand negative numbers in context, calculating intervals across 0



## Four Operations



Identify prime numbers to 100

Understand rules of divisibility

Identify common multiples

Identify common factors

Subtract integers up to 6 digits

Add integers up to 6 digits

Perform mental calculations with mixed operations

Use knowledge of the order of operations to carry out calculations

Solve multistep problems

Solve problems with division

Understand how to do long division with remainders

Introduction to long division

Divide numbers using factor pairs

Divide 4 digit numbers by single digit numbers

Solve problems with multiplication

Multiply 4 digit numbers by 2 digit numbers

Recognise and use square and cube numbers

# Year 6

Autumn Block 3 Number



### Fractions A

Use common factors to simplify fractions

Understand equivalent fractions on a number line

Compare and order fractions by their denominator

Compare and order fractions by their numerator

Add Fractions with different denominators

Subtract Fractions with different denominators

Add mixed numbers



### Fractions B

Autumn Block 4 Number

Find a fraction of an amount

Mixed questions with fractions

Divide any fraction by an integer

Divide a fraction by an integer

Multiply fractions by fractions

Multiply fractions by integers

Multistep problems involving fractions

Subtract mixed numbers

Autumn Block 5 Measurement



### Converting Units

Find the whole from a fraction of an amount

Read and write all metric measures for length, mass and capacity

Convert metric measures

Calculate with metric measures

Understand miles and kilometres

Understand relationships between imperial and metric measures

Apply knowledge of ratio and proportion to solve problems involving recipes

Explore strategies for solving problems involving proportion

Solve problems involving ratio

Explore Similar shapes

Use scale factors to enlarge shapes

Use ratio to draw to a scale

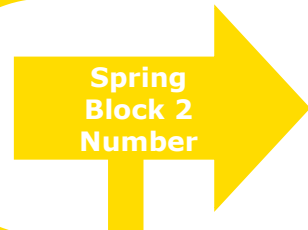
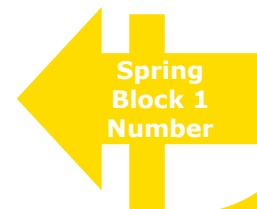
Understand ratio and fractions

Understand the ratio symbol

Use ratio language

Explore the relationships between two numbers

# Ratio



# Algebra



Explore 1-step function machines

Explore 2-step function machines

Form expressions using letters to represent numbers

Find values of expressions by substituting numbers in place of letters

Understand how to use symbols in a formula

Form Equations from diagrams and descriptions

Solve 1-step equations

Solve 2-step equations

Find pairs of values

Solve problems with two unknowns

Multiply and divide decimals in context

Divide decimals by integers

Divide decimals by integers

Multiply decimals by integers

Divide by 10, 100 and 1000

Multiply by 10, 100 and 1000

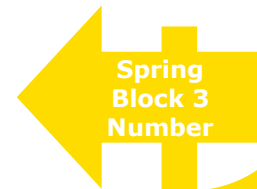
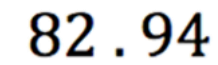
Add and subtract decimals

Round decimals

Place value - integers and decimals

Understand place value within 1

# Decimals



# Year 6



# Fractions, Decimals & Percentages

Spring Block 4 Number

Explore complex decimal and fraction equivalents

Look at fractions as divisions

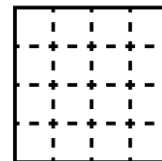
Understand percentages

Understand equivalent fractions and percentages

Understand equivalent fractions, decimals and percentages

Order fractions, decimals and percentages

Find percentages of an amount – one step



# Area, Perimeter and Volume

Spring Block 5 Measurement

Find percentage of an amount - multistep

Find the area of shapes

Find the area and perimeter of rectangles and rectilinear shapes

Find the area of a triangle – counting squares

Find the area of a right-angled triangle

Find the area of any triangle

Find the area of a parallelogram

# Statistics



Spring Block 6 Statistics

Understand how to find the mean

Draw pie chart

Understand pie charts with percentages

Read and interpret pie charts

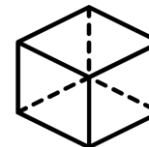
Explore and understand dual bar charts

Explore line Graphs

Find the volume of a cuboid

Find the volume by counting cubes

## Shape



Summer Block 1 Geometry

Measure and classify angles

Calculate angles

Vertically opposite angles

Angles in a triangle

Angles in a triangle – special cases

Angles in a triangle – missing angles

Angles in quadrilaterals

Angles in polygons

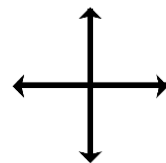
Circles

Draw shapes accurately

Nets of 3-D shapes

Summer Block 2 Geometry

## Position and Direction



The first quadrant

Read and plot points in four quadrants

Solve problems with coordinates

Translations

Reflections

## Decimals

Spring Block 3 Number

Place value – integers and decimals

Place value – integers and decimals

Four decimal places

Add and subtract decimals

Multiply by 10, 100 and 1000

Divide by 10, 100 and 1000

Multiply and divide by 10, 100 and 1000

Divide decimal by integers

Divide decimal by integers

Multiply and divide decimals in context

# Not available on the website yet

## Year 6