Maths Overview

Year 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Autumn	Number **Place value**			Number **Decimals** links to pv		Number **Addition, subtraction, multiplication and division** links to pv and decimals				Number **Fractions A and B** links to pv, decimals and + - x ÷				Assessment week and consolidation	Overflow week
Spring	Geometry **2D and 3D shape**	Ratio links to + - x ÷		Number **Fractions, decimals and percentages** links to pv, decimals, fractions and + - x ÷		Measurement **Area, perimeter and volume** links to + - x ÷ and 2D and 3D shape		Geometry **Angles** links to + - x ÷ and 2D shapes		Algebra links to + - x ÷	Assessment week and consolidation				
Summer	Measurement **Converting units** links to x ÷ and place value	Geometry **Position and direction** links to 2D shapes	Geometry **Circles** links to statistics, angles, 2D shape	Statistics links to + -, fractions and angles	**SATS week**	Algebra links to + - x ÷		Measurement **Time**		Measurement **Money project** links to pv, + - x ÷, statistics, converting units, decimals, fdp			Assessment week and consolidation		

Maths Overview

Year 6

Small steps Autumn

Place value

- Numbers to 1,000,000 Step 2
- Numbers to 10,000,000
- Read and write numbers to 10,000,000
- Powers of 10
- Number line to 10,000,000
- Compare and order any integers
- Round any integer
- Negative numbers

Decimals

- Place value within 1
- Place value – integers and decimals
- Round decimals
- Add and subtract decimals
- Multiply by 10, 100 and 1,000
- Divide by 10, 100 and 1,000
- Multiply decimals by integers
- Divide decimals by integers
- Multiply and divide decimals in context

Addition, subtraction, multiplication and division

- Add and subtract integers
- Common factors
- Common multiples
- Rules of divisibility
- Primes to 100
- Square and cube numbers
- Multiply up to a 4-digit number by a 2-digit number
- Solve problems with multiplication Short division
- Division using factors
- Introduction to long division
- Long division with remainders
- Solve problems with division
- Solve multi-step problems
- Order of operations
- Mental calculations and estimation
- Reason from known facts

Fractions A and B

- Equivalent fractions and simplifying
- Equivalent fractions on a number line
- Compare and order (denominator)
- Compare and order (numerator)
- Add and subtract simple fractions
- Add and subtract any two fractions
- Add mixed numbers
- Subtract mixed numbers
- Multi-step problems
- Multiply fractions by integers
- Multiply fractions by fractions
- Divide a fraction by an integer
- Divide any fraction by an integer
- Mixed questions with fractions
- Fraction of an amount
- Fraction of an amount – find the whole

Maths Overview

Year 6

Small steps Spring

2D and 3D shape

- Compare and classify geometric shapes based on their properties
- Nets of 3-D shapes

Ratio

- Add or multiply?
- Use ratio language
- Introduction to the ratio symbol
- Ratio and fractions
- Scale drawing
- Use scale factors
- Similar shapes
- Ratio problems
- Proportion problems
- Recipes

Fractions, decimals and percentages

- Decimal and fraction equivalents
- Fractions as division
- Understand percentages
- Fractions to percentages
- Equivalent fractions, decimals and percentages
- Order fractions, decimals and percentages
- Percentage of an amount – one step
- Percentage of an amount – multi-step
- Percentages – missing values

Area, perimeter and volume

- Shapes – same area
- Area and perimeter
- Area of a triangle – counting squares
- Area of a right-angled triangle
- Area of any triangle
- Area of a parallelogram
- Volume – counting cubes
- Volume of a cuboid

Angles

- 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 a quadrilateral
- Angles in polygons
- Draw shapes accurately

Algebra

- 1-step function machines
- 2-step function machines
- Form expressions
- Substitution
- Formulae
- Form equations
- Solve 1-step equations
- Solve 2-step equations
- Find pairs of values
- Solve problems with two unknowns

Maths Overview

Year 6

Small steps Summer

Converting units

- Metric measures
- Convert metric measures
- Calculate with metric measures
- Miles and kilometres
- Imperial measures

Position and direction

- The first quadrant
- Read and plot points in four quadrants
- Solve problems with coordinates
- Translations
- Reflections

Circles

- Illustrate and name parts of circles

Statistics

- Line graphs
- Dual bar charts
- Read and interpret pie charts
- Pie charts with percentages
- Draw pie charts
- The mean

Algebra

- Working systematically to enumerate possibilities of combinations of two variables
- Solving number puzzles
- Equivalent expressions

Time

- Solve problems involving converting between units of time
- Convert between analogue and digital time
- Convert between 12 and 24 hour clock

Money

- Budgeting
- Borrowing and debt
- Income
- Savings and pensions