Thrumpton Primary Academy

# Mathematics Curriculum Overview

We empower | We respect | We care

Part of Diverse Academies

# *Year 1 – Yearly Overview*

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |
|---|---|---|---|---|---|---|---|
| Autumn 1 | Number: Place Value (Numbers to 10) & Number Bonds | | | | | Calculations: Addition and Subtraction (Numbers to 10) | |
| Autumn 2 | Calculations: Addition and Subtraction (Numbers to 10) | | | Geometry: Shape | Consolidation / Intervention / Autumn Assessment | | |
| Spring 1 | Number: Place Value (Numbers to 20) | | | Calculations: Addition and Subtraction (Numbers to 20) | | | |
| Spring 2 | Number: Place value (Numbers to 50) | | Measurement: Length and Height | | Measurement: Mass and Volume<br>Spring Assessment | | |
| Summer 1 | Calculations: Multiplication and Division | | | Fractions | | Geometry: Position and Direction | |
| Summer 2 | Number: Place Value (numbers to 100) | | Measurement: Money | Measurement: Time | | Intervention / Summer Assessment | |

# *Year 2 – Yearly Overview*

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |
|---|---|---|---|---|---|---|---|
| Autumn 1 | Number: Place Value (numbers to 100) | | | | Calculations: Addition and Subtraction | | |
| Autumn 2 | Calculations: Addition and Subtraction | | Geometry: Shape | | | Consolidation / Intervention / Autumn Assessment | |
| Spring 1 | Measurement: Money | | Calculation: Multiplication and Division | | | | |
| Spring 2 | Calculation: Multiplication and Division | Measurement: Length and Height | | Measurement: Mass, Capacity & Temperature Spring Assessment | | | |
| Summer 1 | Fractions | | | Measurement: Time | | | |
| Summer 2 | Statistics | | Geometry: Position and Direction | | Consolidation / Intervention / Summer Assessment | | |

# *Year 3 – Yearly Overview*

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |
|---|---|---|---|---|---|---|---|
| Autumn 1 | Number: Place value (numbers to 1000) | | | Calculations: Addition and Subtraction | | | |
| Autumn 2 | Calculations: Addition and Subtraction | Calculations: Multiplication and Division A | | | | Consolidation / Intervention / Autumn Assessment | |
| Spring 1 | Calculations: Multiplication and Division B | | | Measurement: length and perimeter | | | |
| Spring 2 | Fractions A | | | Measurement: Mass and Capacity<br>Spring Assessment | | | |
| Summer 1 | Fractions B | | Measurement: Money | | Measurement: Time | | |
| Summer 2 | Measurement: Time | Geometry: Shape | | Statistics | | Consolidation / Intervention / Summer Assessment | |

# *Year 4 – Yearly Overview*

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |
|---|---|---|---|---|---|---|---|
| Autumn | Number: Place value (numbers to 10,000) | | | | Calculations: Addition and Subtraction | | |
| Autumn 2 | Measurement: area | Geometry: Shape | | Statistics | Consolidation / Intervention / Autumn Assessment | | |
| Spring 1 | Measurement: Length and Perimeter | | Geometry: Position and Direction | | Multiplication and division | | |
| Spring 2 | Multiplication and division | Fractions | | | | Consolidation / Intervention / Spring Assessment | |
| Summer 1 | Decimals A | | | Decimals B | | Measurement: Money | |
| Summer 2 | Measurement: Money | Measurement: Time | | Consolidation / Intervention / Summer Assessment | | | |

# *Year 5 – Yearly Overview*

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |
|---|---|---|---|---|---|---|---|
| Autumn 1 | Number: Place value (Numbers to 1,000,000) | | | Calculations: Addition and subtraction | | Calculations: Multiplication and division A | |
| Autumn 2 | Calculations: Multiplication and division A | Fractions A | | | | Consolidation / Intervention / Autumn Assessment | |
| Spring 1 | Calculations: Multiplication and division B | | | Fractions B | | Decimals and percentages | |
| Spring 2 | Decimals and percentages | | Measurement: Perimeter and area | | Statistics<br>Spring Assessment | | |
| Summer 1 | Geometry: Shape | | | Geometry: Position and direction | | Decimals | |
| Summer 2 | Decimals | | Number: Negative numbers | Measurement: Converting units | | Measurement: Volume | Consolidation / Intervention / Summer Assessment |

# *Year 6 – Yearly Overview*

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |
|---|---|---|---|---|---|---|---|
| Autum 1 | Number: Place Value | | Calculations: Addition, subtraction, multiplication and division | | | | |
| Autumn 2 | Fractions A | | Fractions B | | Measurement: Converting units | Consolidation / Intervention | |
| Spring 1 | Number: Ratio | | Number: Algebra | | Decimals | | |
| Spring 2 | Fractions, decimals and percentages | | Measurement: Area, perimeter and volume | | Statistics | | |
| Summer 1 | Geometry: Shape | | | Geometry: Position and direction | SATS | | |
| Summer 2 | Themed projects/ Consolidation / Intervention/ Problem Solving / Transition | | | | | | |

# *Year 6 – Small Steps*

## Number and Place Value

- Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
- Round any whole number to a required degree of accuracy

## Calculations: The four operations

- Add and subtract whole numbers
- Multiply up to a 4-digit number by a 2-digit number
- Short division
- Long Division
- Factors, multiples and primes
- Squares and cubes
- BIDFMAS
- Mental calculations and estimation
- Reasoning from known facts

## Fractions

- Simplify fractions
- Fractions on a number line
- Compare and order fractions (using numerator and denominator)
- Add and subtract fractions
- Multiply fractions by a whole number
- Multiply fractions by a fraction
- Divide a fraction by a whole number
- Fraction of an amount

## Decimals

- Three decimal places
- Multiply by 10, 100 and 1000
- Divide by 10, 100, 1000
- Multiply decimals by integers
- Divide decimals by integers
- Decimals as fractions

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|---|
| • Fraction to decimals |
| Converting Units |
| • Metric measures<br>• Converting metric measures<br>• Calculate with metric measures<br>• Mile and kilometres<br>• Imperial measures |
| Percentages |
| • Fraction to percentages<br>• FDP equivalence<br>• Percentage of amount<br>• Percentages – missing value<br>• Percentage increase and decease<br>• Order FDP |
| Negative Numbers |
| • Use negative numbers in context<br>• Calculate intervals across zero |
| Perimeter, Area and Volume |
| • Shapes – same area different perimeters and vice versa<br>• Area and perimeter<br>• Area of a triangle<br>• Area of a parallelogram<br>• Volume – counting cubes<br>• Volume of a cuboid |
| Properties of shapes |
| • Measure with a protractor<br>• Introduce angles<br>• Calculate angles<br>• Vertically opposite angles<br>• Angles – triangles<br>• Angles – special cases<br>• Find missing angles<br>• Angles – quadrilateral<br>• Angles – regular polygons |

- Draw shapes
- Draw nets

**Position and direction**

- Coordinates in the first quadrant
- Plotting coordinates
- Translations
- Reflections
- Reasoning about shape with coordinates

**Ratio**

- Using ratio language
- Ratio and fractions
- Introduce the ratio symbol
- Calculating ratio
- Using scale factors
- Ratio and proportion problems

**Algebra**

- Find a rule – one step
- Find a rule – two step
- Use an algebraic rule
- Substitution
- Formulae
- Word problems
- Solve simple one step equations
- Solve two step equations

**Statistics**

- Read and interpret line graphs
- Draw lines graphs
- Use line graphs to solve problems
- Circles
- Read and interpret pie charts
- Pie charts with percentages
- Draw pie charts
- The mean