

# MyMaths for Key Stage 3 Books 2A/B/C

## Curriculum Plan, Year 8

### Autumn 1 (8 weeks)

**1. Whole Number and decimals (Number) (Levels 4-5) 2A**  
Negative numbers, multiples and factors, common factors, prime numbers, ordering decimal numbers, rounding, square numbers, and square roots

**1. Whole Number and decimals (Number) (Levels 4-6) 2B**  
Integers and decimals, multiplying and dividing integers, multiples and factors, prime numbers, LCM and HCF, squares and cubes, square roots, cube roots

**1. Whole Number and decimals (Number) (Levels 5-6) 2C**  
Factors, multiples and primes, prime factor decomposition, LCM and HCF, square roots and cube roots, indices, rounding and estimation, trial and Improvement 1

2.5 weeks

**5. Angles and shapes (Geometry) (Levels 4-5) 2A**  
Angles, opposite angles, properties of triangles, angles in a triangle, parallel lines, properties of quadrilaterals

**5. Angles and shapes (Geometry) (Level 6) 2B**  
Angles, properties of a triangle, angles in parallel lines, properties of a quadrilateral, properties of a polygon, congruent shapes

**5. Angles and shapes (Geometry) (Levels 6-7) 2C**  
Angles and parallel lines, properties of a triangle and a quadrilateral, properties of a polygon, congruent shapes

**6. Graphs (Algebra) (Level 5) 2A**  
Coordinates in four quadrants, coordinates in straight lines, drawing graphs, horizontal and vertical graphs, real-life graphs, conversion graphs, graphs and formulae

**6. Graphs (Algebra) (Level 6) 2B**  
Drawing straight-line graphs, equation of a straight line, real life graphs 1, real life graphs 2, time series graphs

**6. Graphs (Algebra) (Level 6) 2C**  
Graphs of linear functions, equation of a straight line, curved graphs, midpoints of coordinate pairs, graphs of implicit functions, real-life graphs, time series

2.5 weeks

2 weeks

8 weeks

### Autumn 2 (7 weeks)

**7. Mental calculations (Number) (Levels 4-5) 2A**  
Order of operations, mental addition and subtraction, mental multiplication and division, addition and subtraction problems, multiplication and division problems

**7. Mental calculations (Number) (Levels 5-6) 2B**  
Rounding, mental addition and subtraction, multiply and divide by powers of 10, mental multiplication and division, mental addition and subtraction problems, mental multiplication and division problems

**7. Mental calculations (Number) (Levels 5-6) 2C**  
Arithmetic with negative integers, powers of 10, mental addition and subtraction, mental multiplication and division

2 weeks

**13. Sequences (Algebra) (Levels 4-5) 2A**  
Term-to-term rules, position-to-term rules, real life sequences, triangular numbers

**13. Sequences (Algebra) (Level 6) 2B**  
Term-to-term rules, position-to-term rules, sequences in context, geometric sequences

**13. Sequences (Algebra) (Levels 6-7) 2C**  
General term of a sequence, sequences in context, geometric sequences, recursive sequences

2 weeks

**14. 3D shapes (Geometry) (Levels 4-5) 2A**  
3D shapes, isometric drawings, nets of 3D shapes, surface area of a cuboid, volume of a cuboid

**14. 3D shapes (Geometry) (Levels 5-6) 2B**  
3D shapes, plans and elevations, surface area of a cuboid, volume of a cuboid, prisms

**14. 3D shapes (Geometry) (Levels 6-7) 2C**  
3D shapes, plans and elevations, surface area of a prism, volume of a prism

2.5 weeks

7 weeks

### Spring 1 (5 weeks)

**15. Ratio and proportion (Ratio) (Level 5) 2A**  
Simplifying ratios, dividing into ratios, proportion, proportion problems, ratio and proportion problems, comparing proportions, calculations involving money

**15. Ratio and proportion (Ratio) (Levels 5-6) 2B**  
Ratio, division in a given ratio, direct proportion, ratio and proportion, percentage increase and decrease, comparing proportions

**15. Ratio and proportion (Ratio) (Levels 6-7) 2C**  
Ratio, division in a given ratio, direct proportion, ratio and proportion, comparing proportions, algebra and proportions

2 weeks

**12. Constructions (Geometry) (Level 5) 2A**  
Lines and angles, constructing a triangle 1, constructing a triangle 2, scale drawing

**12. Constructions (Geometry) (Levels 6-7) 2B**  
Constructing triangles 1, constructing triangles 2, bisectors, constructing perpendiculars, loci, scale drawings, bearings

**12. Constructions (Geometry) (Levels 6-7) 2C**  
Constructing triangles 1, constructing triangles 2, bisectors and perpendiculars, scale drawings, loci, bearings

2.5 weeks

5 weeks

This Curriculum plan should be used as a guide only. Covers National Curriculum Levels 3-7.



# MyMaths for Key Stage 3 Books 2A/B/C

## Curriculum Plan, Year 8

Spring 2 (6 weeks)

<b>9. Transformations and symmetry (Geometry) (Level 5) 2A</b> Reflection, reflection symmetry, rotation, rotational symmetry, translation, tessellations	<b>10. Equations (Algebra) (Level 5) 2A</b> One-step equations, equation puzzles, two-step equations, making equations	<b>11. Written and calculator methods (Number) (Levels 4-5) 2A</b> Written addition and subtraction, written multiplication, written division, written arithmetic problems, calculator skills, interpreting the display
<b>9. Transformations and symmetry (Geometry) (Levels 5-6) 2B</b> Transformations, combinations of transformations, symmetry, enlargements 1, enlargements 2	<b>10. Equations (Algebra) (Levels 5-6) 2B</b> Solving one-step equations, solving multi-step equations, equations with brackets, real life equations	<b>11. Written and calculator methods (Number) (Levels 5-6) 2B</b> Written addition and subtraction, written methods of multiplication, written methods of division, order of operations, addition and subtraction problems, multiplication and division problems, calculation methods
<b>9. Transformations and symmetry (Geometry) (Levels 5-6) 2C</b> Transformations, combinations of transformations, symmetry, enlargements 1, enlargements 2	<b>10. Equations (Algebra) (Levels 6-7) 2C</b> Linear equations 1, linear equations 2, equations with fractions, trial and improvement 2, real-life equations	<b>11. Written and calculator methods (Number) (Level 6) 2C</b> Multiplication, division, calculator skills, calculators in context, order of operations, written addition and subtraction, multiplication and division problems
2 weeks	2 weeks	2 weeks

6 weeks

Summer 1 (6 weeks)

<b>2. Measures, perimeter and area (Geometry) (Levels 4-5) 2A</b> Metric measures, metric and money conversions, other units of measure, reading scales, perimeter and area, area of a rectangle, shapes made from rectangles	<b>3. Expressions and formulae (Algebra) (Level 5) 2A</b> Using symbols, substitution, simplifying expressions, expanding brackets, simplifying harder expressions, formulae, writing a formula	<b>16. Probability (Statistics) (Levels 5-6) 2A</b> Likelihood and chance, the probability scale, equally likely outcomes, experimental probability, Venn diagrams
<b>2. Measures, perimeter and area (Geometry) (Levels 5-6) 2B</b> Metric measures, imperial measure, perimeter and area of a rectangle, area of a triangle, area of a parallelogram and a trapezium	<b>3. Expressions and formulae (Algebra) (Level 5) 2B</b> Simplifying and substituting, indices, like terms, expanding brackets, substituting into formulae, writing a formula	<b>16. Probability (Statistics) (Levels 5-6) 2B</b> Listing outcomes, probability, experimental probability, theoretical and experimental probability, sets
<b>2. Measures, perimeter and area (Geometry) (Levels 5-6) 2C</b> Metric measures, imperial measure, area of a rectangle and a triangle, area of a parallelogram and trapezium, circumference of a circle, area of a circle	<b>3. Expressions and formulae (Algebra) (Levels 6-7) 2C</b> Indices in algebra, index laws, collecting like terms including powers, expanding brackets, factorising expressions, formulae, rearranging formulae, writing expressions, algebraic fractions	<b>16. Probability (Statistics) (Levels 6-7) 2C</b> Two or more events, tree diagrams, mutually exclusive outcomes, experimental probability, comparing experimental and theoretical probability, simulating experimental data, Venn diagrams and probability
1.5 weeks	1.5 weeks	2.5 weeks

6 weeks

Summer 2 (7 weeks)

<b>4. Fractions, decimals and percentages (Number) (Levels 3-5) 2A</b> Fractions, fractions and decimals, adding and subtracting fractions, fraction of a quantity, finding 10 percent, percentages, fractions, decimals and percentages	<b>8. Statistics (Statistics) (Levels 4-5) 2A</b> Planning a survey, collecting data, frequency tables, bar charts, pie charts, mode, median and range, the mean, averages from frequency tables, comparing data sets, statistical reports	End of Year Assessment
<b>4. Fractions, decimals and percentages (Number) (Levels 5-6) 2B</b> Ordering decimals, fractions and decimals, adding and subtracting fractions, fraction of a quantity, percentages of amounts, fractions, decimals and percentages	<b>8. Statistics (Statistics) (Levels 5-6) 2B</b> Planning a data collection, collecting data, pie charts, bar charts and frequency diagrams, averages, averages from frequency tables, scatter graphs and correlation, stem-and-leaf diagrams	
<b>4. Fractions, decimals and percentages (Number) (Levels 6-7) 2C</b> Fractions and decimals, adding and subtracting fractions, multiplying and dividing fractions, percentage change, percentage problems, fractions, decimals and percentages	<b>8. Statistics (Statistics) (Levels 6-7) 2C</b> Planning a statistical investigation, collecting data, frequency tables, constructing diagrams, averages 1, averages 2, interpreting statistical diagrams, scatter diagrams and correlation, comparing distributions	
2 weeks	2.5 weeks	

7 weeks

This Curriculum plan should be used as a guide only. Covers National Curriculum Levels 3-7.

