MyMaths for Key Stage 3 Books 3A/B/C
Curriculum Plan, Year 9

Autumn 1 (8 weeks)

1. Whole Number and decimals (Number) (NC 4-6) 3A
Powers of 10; rounding; order of operations; Multiple, factors, divisibility and prime numbers; Prime factors, the HCF and LCM; Ordering decimals

1. Whole Number and decimals (Number) (NC 5-7) 3B
Powers of 10; rounding; factors, multiples and primes; estimating and approximating

1. Whole Number and decimals (Number) (NC 6-8) 3C
Significant figures; upper and lower bounds 1; upper and lower bounds 2; using numbers in index form

2.5 weeks

2. Measures and area (Geometry) (NC 5-6) 3A
Metric measures; Imperial measures; Area; Area of a triangle; Area of a parallelogram; Circumference of a circle

2. Measures, perimeter and area (Geometry) (NC 5-7) 3B
Measures 1; Measures 2; Area of a 2D shape; Circumference of a circle; Area of a circle; Compound measures

2. Measures, perimeter and area (Geometry) (NC 6-8) 3C
Measures; dimensions; length and area; compound measures

2.5 weeks

3. Expressions and formulae (Algebra) (NC 5-7) 3A
Simplifying expressions; using brackets; Formulae; Making expressions

3. Expressions and formulae (Algebra) (NC 6-7) 3B
Factors in algebra; algebraic functions; formulae in context; rearranging formulae; deriving and graphing formulae

3. Expressions and formulae (Algebra) (NC 6-8) 3C
Index laws 1; index laws 2; multiplying linear expressions; factorising expressions; identities; formulae; changing the subject of a formula 1; changing the subject of a formula 2

2 weeks

8 weeks

Autumn 2 (7 weeks)

4. Fractions, decimals and percentages (Number) (NC 4-7) 3A
Adding and subtracting fractions 1; adding and subtracting fractions 2; fraction of a quantity; multiplying and dividing fractions; fractions and decimals; percentage of a quantity; percentage problems; financial maths 1: percentage change

4. Fractions, decimals and percentages (Number) (NC 6-8) 3B
Adding and subtracting fractions; multiplying fractions; dividing by fractions; decimals and fractions; percentage change; percentage problems; financial maths 1: repeated percentage change

4. Fractions, decimals and percentages (Number) (NC 7-8) 3C
Calculating with fractions; recurring decimals and reciprocals; percentage increase and decrease; reverse percentages; financial maths 1: repeated percentage change

2 weeks

5. Angles and 2D shapes (Geometry) (NC 4-6) 3A
Angles and lines; angles in a triangle; properties of triangles; angles in a quadrilateral; properties of quadrilaterals

5. Angles (Geometry) (NC 6) 3B
Angle properties of a triangle; angle properties of a quadrilateral; angle properties of a polygon 1; angle properties of a polygon 2; congruent shapes

5. Angles and 2D shapes (Geometry) (NC 6-8) 3C
Angle problems; angles in a polygon; circle properties; arc and sectors; congruence

2 weeks

6. Graphs (Algebra) (NC 5-6) 3A
Horizontal and vertical lines; tables of values; drawing straight line graphs; problem solving using straight line graphs; straight line rules; interpreting real life graphs; time series graphs

6. Graphs (Algebra) (NC 6) 3B
Tables of values; drawing straight-line graphs; gradient of a straight-line graph; y-intercept of a straight-line graph; the equation y=mx+c; equations given implicitly; real-life graphs; distance-time graphs; time series

6. Graphs (Algebra) (NC 6-8) 3C
The gradient of straight line; graphs of linear functions; parallel and perpendicular lines; quadratic graphs 1; quadratic graphs 2; cubic graphs; distance-time graphs; real-life graphs; time series; exponential and reciprocal graphs

2.5 weeks

7 weeks

Spring 1 (5 weeks)

7. Calculations (Number) (NC 4-6) 3A
Addition and subtraction; mental multiplication and division; written multiplication; written division; estimating and approximating ; using a calculator

7. Decimal calculations (Number) (NC 6-7) 3B
Adding and subtracting decimals; multiplying decimals; dividing decimals; using a calculator; interpreting a calculator display

7. Decimal calculations (Number) (NC 5-8) 3C
Order of operations; calculating with decimals; using a calculator; interpreting the calculator display

2 weeks

8. Statistics (Statistics) (NC 4-6) 3A
Designing a survey; collecting data; frequency tables; bar charts; pie charts; calculating averages; scatter graphs; stem-and-leaf diagrams; frequency diagrams; writing a statistical report

8. Statistics (Statistics) (NC 6-7) 3B
Planning a project; data collection; frequency tables; statistical diagrams 1; statistical diagrams 2; calculating averages; interpreting graphs; correlation; averages from grouped data; comparing distributions; communicating the results of an enquiry

8. Statistics (Statistics) (NC 6-8) 3C
Planning a statistical survey; data collection; frequency diagrams; moving averages; the mean; correlation; cumulative frequency; interpreting data; comparing distributions; box plots

2.5 weeks

5 weeks

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Ms E. Lawes

MyMaths for Key Stage 3 Books 3A/B/C
Curriculum Plan, Year 9

Spring 2 (6 weeks)

9. Transformations and symmetry (Geometry) (NC 5-6) 3A Reflection and rotation symmetry; reflection; translation; rotation; enlargement; enlargement through a centre; scale drawings	**10. Equations (Algebra) (NC 4-6) 3A** Equality and inequality; solving equations; balancing equations 1; balancing equations 2; writing equations	**11. Powers and roots (Number) (NC 4-6) 3A** Square numbers and square roots; using square numbers and square roots; indices standard form
9. Transformations (Geometry) (NC 5-7) 3B Transformations; enlargements; combinations of transformations; maps and scale drawings; bearings	**10. Equations (Algebra) (NC 6-7) 3B** Solving equations; equations with brackets; unknown on both sides; constructing equations; trial and improvement	**11. Powers and roots (Number) (NC 6-8) 3B** Square roots and cube roots; indices; indices and surds; standard form for large numbers; standard form for small numbers
9. Transformations (Geometry) (NC 6-8) 3C Transformations; enlargements; 1; enlargements 2; maps and scale drawings; similar shapes	**10. Equations (Algebra) (NC 7-8) 3C** Consolidating linear equations; simultaneous equations 1; simultaneous equations 2; constructing simultaneous equations; solving simultaneous equations with graphs; solving inequalities; solving equations using trial-and-improvement	**11. Powers and roots (Number) (NC 6-8) 3C** Standard form for large numbers; standard form for small numbers; powers and operations; indices and surds
2 weeks	2 weeks	2 weeks

6 weeks

Summer 1 (6 weeks)

12. Constructions (Geometry) (NC 5-6) 3A Using a protractor; perpendicular lines; perpendicular bisectors; angle bisectors; constructing triangles; bearings	**13. Sequences (Algebra) (NC 6) 3A** Term-to-term rules; position-to-term rules; the nth term formula; recursive sequences	**14. 3D shapes (Geometry) (NC 5-6) 3A** Three-dimensional shapes; nets; plans and elevations; volume of a cuboid; shapes made from cuboids; surface area of a cuboid
12. Constructions and Pythagoras (Geometry) (NC 6-7) 3B Constructing a triangle 1; constructing a triangle 2; loci and constructions; Pythagoras' theorem 1; Pythagoras' theorem 2	**13. Sequences (Algebra) (NC 6-7) 3B** Sequences and terms; position-to-term rules; the general term; real-life sequences; recursive sequences	**14. 3D shapes (Geometry) (NC 5-7) 3B** 3D shapes; plans and elevations; symmetry of a 3D shape; surface area of a prism; volume of a prism
12. Constructions and Pythagoras (Geometry) (NC 7-8) 3C Pythagoras' theorem; applications of Pythagoras' theorem; constructing a triangle; loci	**13. Sequences (Algebra) (NC 6-7) 3C** Position-to-term rules; patterns and sequences; quadratic sequences; behaviour of a sequence	**14. 3D shapes and trigonometry (Geometry) (NC 6-8) 3C** 3D shapes; 3D geometry; Trigonometry 1; trigonometry 2; bearings
1.5 weeks	1.5 weeks	2.5 weeks

6 weeks

Summer 2 (7 weeks)

15. Ratio (Ratio) (NC 4-6) 3A Ratio; dividing in a given ratio; ratio and proportion; percentage and proportion; proportional reasoning; financial mathematics 2: living on a budget	**16. Probability (Statistics) (NC 5-6) 3A** Probability; mutually exclusive events; theoretical probability; counting outcomes; two events; probability experiments; Venn diagrams	**End of Year Assessment**
15. Ratio and proportion (Ratio) (NC 6-7) 3B Direct proportion; comparing proportions; ratio; uses of ratio; ratio and proportion problems; proportional reasoning; financial maths 2: living on a budget	**16. Probability (Statistics) (NC 5-7) 3B** Prediction and uncertainty; mutually exclusive events; calculating probabilities; the outcomes of two trials; experimental probability; comparing theoretical and experimental probabilities ; Venn diagrams	
15. Ratio and proportion (Ratio) (NC 6-7) 3C Fractions and proportion; ratio and proportion; proportionality; proportion and scale; proportional reasoning; financial maths 2: living on a budget	**16. Probability (Statistics) (NC 6-8) 3C** Prediction and uncertainty; independent events; tree diagrams; probability of combined events; experimental probability; simulations; Venn diagrams	
2 weeks	2.5 weeks	

7 weeks

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Spring 2 (6 weeks)

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9. Transformations (Geometry) (NC 6-8) 3C Transformations; enlargements; 1; enlargements 2; maps and scale drawings; similar shapes	**10. Equations (Algebra) (NC 7-8) 3C** Consolidating linear equations; simultaneous equations 1; simultaneous equations 2; constructing simultaneous equations; solving simultaneous equations with graphs; solving inequalities; solving equations using trial-and-improvement	**11. Powers and roots (Number) (NC 6-8) 3C** Standard form for large numbers; standard form for small numbers; powers and operations; indices and surds
2 weeks	2 weeks	2 weeks

6 weeks

Summer 1 (6 weeks)

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1.5 weeks	1.5 weeks	2.5 weeks

6 weeks

Summer 2 (7 weeks)

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2 weeks	2.5 weeks	

7 weeks

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