M1 Number Topics

Number Topics	Completed
BIDMAS	
Symbols >, <, =, ≠ etc	
Reciprocals	
Index Notation	
Decimal Places	
Significant Figures	
Factors and Multiples	
Prime Numbers	
Prime Factor Decomposition	
Square number, cube number, Square root, Cube root	
Adding and Subtracting Negative Numbers	
Multiplying and Dividing Negative Numbers	
Simplifying and Equivalent Fractions	
Adding and Subtracting Fractions	
Multiplying Fractions	
Dividing Fractions	
Finding a Fraction of an Amount	
Express one quantity as a fraction of another (writing fractions)	
Ordering Fractions, Decimals and Percentages	
Writing Fractions as Recurring Decimals	
Express one quantity as a percentage of another (writing percentages)	
Finding a Percentage of an Amount	
Percentage Increase and Decrease	
Percentage Change - profit and loss	
Wages and Salaries	
Bank Accounts	

M1 Algebra Topics

Algebra Topics	Completed
Expressions, Equations, Formulae and Inequalities	
Simplifying Expressions/Collecting Like Terms	
Expanding Brackets	
Expanding 2 Brackets	
Factorising	
Write simple formulae and expressions from real-life contexts	
Substitute numbers into formulae (in words or algebraically) and expressions	
Simplify simple algebraic fractions	
Solving Equations (one unknown or 2 unknowns on either side of equal sign)	
Co-ordinates	
Straight Line Graphs	
Construct and interpret linear graphs in real world contexts	

M1 Geometry and Measure Topics

Topics	Completed
2D/3D shape	
Different Angles	
Angles on a straight line and full turn	
Angles in a triangle	
Angles in a quadrilateral	
Angles in parallel lines	
Time	
Timetables	
Length, Mass and Capacity	
Converting between units	
Properties of 2D shapes	
Perimeter	
Area and Perimeter on a grid	
Area of square and rectangle	
Area of Triangle	
Volume of cube and cuboid	
Surface area of cube and cuboid	
Parts of a circle	
Circumference	
Area of circles	
Area by counting squares	
Properties of 3D shapes	
2D representations of 3D shapes	
Time, Distance and Speed	
Density	
Heartbeats per minute	

M1 Handling Data Topics

Topics	Completed
Decision Tree Diagrams	
Questionnaires	
Biased Questions	
Sampling	
Venn Diagrams	
Mean, Median, Mode and Range from a list of numbers	
Mean, Median, Mode and Range from a frequency tables	
Mean, Median, Mode and Range from a grouped frequency table	
Pictograms	
Bar Charts	
Tally Charts	
Stem and Leaf Diagrams	
Pie Charts	
Line Graphs	
Distance Tables	
Two-way Tables	
Scatter Graphs	
Flow Diagrams	

M2 Number Topics

Number Topics	Completed
BIDMAS	
Symbols >, <, =, ≠ etc	
Reciprocals	
Index Notation	
Decimal Places	
Significant Figures	
Factors and Multiples	
Prime Numbers	
Prime Factor Decomposition	
Lowest Common Multiple (LCM) and Highest Common Factor (HCF)	
Square number, cube number, Square root, Cube root	
Adding and Subtracting Negative Numbers	
Multiplying and Dividing Negative Numbers	
Simplifying and Equivalent Fractions	
Adding and Subtracting Fractions	
Multiplying Fractions	
Dividing Fractions	
Finding a Fraction of an Amount	
Express one quantity as a fraction of another (writing fractions)	
Ordering Fractions, Decimals and Percentages	
Writing Fractions as Recurring Decimals	
Express one quantity as a percentage of another (writing percentages)	
Finding a Percentage of an Amount	
Percentage Increase and Decrease	
Percentage Change - profit and loss	
Wages and Salaries	
Bank Accounts	
Budgeting	
Simple Interest	
Compound Interest	
Percentage and Repeated Proportional Change	

M2 Algebra Topics

Algebra Topics	Completed
Expressions, Equations, Formulae and Inequalities	
Simplifying Expressions/Collecting Like Terms	
Expanding Brackets	
Expanding 2 Brackets	
Factorising	
Write simple formulae and expressions from real-life contexts	
Substitute numbers into formulae (in words or algebraically) and expressions	
Simplify simple algebraic fractions	
Solving Equations (one unknown or 2 unknowns on either side of equal sign)	
Co-ordinates	
Straight Line Graphs	
Midpoint of a line given in 2D co-ordinates	
Length of a line given in 2D co-ordinates	
Construct and interpret linear graphs in real world contexts	
Find and interpret gradients and intercepts of linear graphs	

M2 Geometry and Measure Topics

Topics	Completed
Straight Lines	
Different Angles	
Angles on a straight line and full turn	
Angles in a triangle	
Angles in a quadrilateral	
Angles in parallel lines	
Time	
Timetables	
Length, Mass and Capacity	
Converting between units	
Properties of 2D shapes	
Perimeter	
Area of square and rectangle	
Area of Triangle	
Volume of cube and cuboid	
Surface area of cube and cuboid	
Parts of a circle	
Circumference	
Perimeter of shapes including parts of circles (1/2 and 1/4 circles)	
Area of circles	
Area of shapes including parts of circles (1/2 and 1/4 circles)	
Area by counting squares	
Area and perimeter of composite shapes	
Area of parallelogram, trapezium, rhombus and kite	
Properties of 3D shapes	
2D representations of 3D shapes	
Volume of a prism	
Pythagoras Theorem	
Time, Distance and Speed	
Density	
Heartbeats per minute	
Miles per gallon	
Pressure	

M2 Handling Data Topics

Topics	Completed
Decision Tree Diagrams	
Questionnaires	
Biased Questions	
Sampling	
Venn Diagrams	
Mean, Median, Mode and Range from a list of numbers	
Mean, Median, Mode and Range from a frequency tables	
Mean, Median, Mode and Range from a grouped frequency table	
Pictograms	
Bar Charts	
Tally Charts	
Stem and Leaf Diagrams	
Pie Charts	
Line Graphs	
Distance Tables	
Two-way Tables	
Scatter Graphs	
Flow Diagrams	
Frequency Polygons	

M3 Number Topics

Number Topics	Completed
BIDMAS	
Symbols >, <, =, ≠ etc	
Reciprocals	
Index Notation	
Decimal Places	
Significant Figures	
Factors and Multiples	
Prime Numbers	
Prime Factor Decomposition	
Lowest Common Multiple (LCM) and Highest Common Factor (HCF)	
Square number, cube number, Square root, Cube root	
Adding and Subtracting Negative Numbers	
Multiplying and Dividing Negative Numbers	
Simplifying and Equivalent Fractions	
Adding and Subtracting Fractions	
Multiplying Fractions	
Dividing Fractions	
Finding a Fraction of an Amount	
Express one quantity as a fraction of another (writing fractions)	
Ordering Fractions, Decimals and Percentages	
Writing Fractions as Recurring Decimals	
Express one quantity as a percentage of another (writing percentages)	
Finding a Percentage of an Amount	
Percentage Increase and Decrease	
Percentage Change - profit and loss	
Wages and Salaries	
Bank Accounts	
Budgeting	
Simple Interest	
Compound Interest	
Percentage and Repeated Proportional Change	
Upper and Lower Bounds	
Find the original amount	

M3 Algebra Topics

Algebra Topics	Completed
Expressions, Equations, Formulae and Inequalities	
Simplifying Expressions/Collecting Like Terms	
Expanding Brackets	
Expanding 2 Brackets	
Factorising	
Factorising using the difference of 2 squares	
Factorising quadratic expressions	
Write simple formulae and expressions from real-life contexts	
Substitute numbers into formulae (in words or algebraically) and expressions	
Simplify simple algebraic fractions	
Add and subtract algebraic fractions	
Multiply and divide algebraic fractions	
Solving Equations (one unknown or 2 unknowns on either side of equal sign)	
Solving quadratic equations	
Solving algebraic fractions	
Co-ordinates	
Straight Line Graphs	
Midpoint of a line given in 2D co-ordinates	
Length of a line given in 2D co-ordinates	
Straight line $y = mx + c$	
Find the equation of a line given 2 points or through one point with a given gradient	
Gradients of parallel lines	
Construct and interpret linear graphs in real world contexts	

M3 Geometry and Measure Topics

Topics	Completed
Straight Lines	
Different Angles	
Angles on a straight line and full turn	
Angles in a triangle	
Angles in a quadrilateral	
Angles in parallel lines	
Time	
Timetables	
Length, Mass and Capacity	
Converting between units	
Properties of 2D shapes	
Perimeter	
Area of square and rectangle	
Area of Triangle	
Volume of cube and cuboid	
Surface area of cube and cuboid	
Parts of a circle	
Circumference	
Perimeter of shapes including parts of circles (1/2 and 1/4 circles)	
Area of circles	
Area of shapes including parts of circles (1/2 and 1/4 circles)	
Area by counting squares	
Area and perimeter of composite shapes	
Area of parallelogram, trapezium, rhombus and kite	
Properties of 3D shapes	
2D representations of 3D shapes	
Volume of a prism	
Pythagoras Theorem	
Time, Distance and Speed	
Density	
Heartbeats per minute	
Miles per gallon	
Pressure	
Arc Length	
Area of a sector	
Surface area of a cylinder	
Volume and surface area of a cone	
Volume and surface area of a sphere	
Trigonometry	

M3 Handling Data Topics

Topics	Page
Pictograms	
Tally Charts	
Bar Charts	
Stem and Leaf Diagrams	
Line Graphs	
Questionnaires	
Distance Tables	
Two-way Tables	
Venn Diagrams	
Frequency Polygons	
Flow Diagrams	
Pie Charts	
Scatter Graphs	
Mean, Median, Mode and Range from a list of numbers	
Mean, Median, Mode and Range from a frequency tables	
Mean, Median, Mode and Range from a grouped frequency table	
Cumulative Frequency Graphs	
Box Plots	

M4 Number Topics

Number Topics	Completed
BIDMAS	
Symbols >, <, = etc	
Reciprocal	
Index Notation	
Decimal places	
Significant figures	
Factors and multiples	
Prime numbers	
Prime factor decomposition	
LCM and HCF	
Square number, cube number, square root, cube root	
Adding and subtracting negative numbers	
Multiplying and dividing negative numbers	
Simplifying and equivalent fractions	
Adding and subtracting fractions	
Multiplying and dividing fractions	
Finding a fraction of an amount	
Express one quantity as a fraction of anothe	
Ordering fractions, decimals and percentages	
Writing fractions, decimals and percentages	
Writing fractions as recurring decimals	
Express one quantity as a percentage of another	
Finding a percentage of an amount	
Percentage increase and decrease	
Percentage change – profit and loss	
Wages and salaries	
Bank accounts	
Budgeting	
Simple interest	
Compound interest	
Percentage and repeated proportional change	
Lower and upper bounds	
Find the original amount	
Upper and lower bounds in calculations involving subtraction and division of numbers expressed to a given degree of accuracy	

M4 Algebra Topics

Algebra Topics	Completed
Expressions, Equations, Formula and Inequalities	
Simplifying Expressions/Collecting Like Terms	
Expanding Brackets	
Expanding 2 brackets	
Factorising	
Factorising using the difference of two squares	
Factorising Quadratic expressions	
Write simple formulae and expressions from real life contexts	
Substitute numbers into formula (in words or algebraically) and expression	
Simplify simple algebraic fractions	
Add and subtract algebraic fractions	
Multiply and divide algebraic fractions	
Solving equations (one unknown or 2 unknowns on either side of equal sign)	
Solving quadratic equations	
Solving algebraic fractions	
Co-ordinates	
Straight line graphs	
Midpoint of a line given in 2D co ordinates	
Length of a line given in 2D co-ordinates	
Straight line $y = mx + c$	
Find the equation of a line given 2 points or through 1 point with a given gradient	
Gradients of parallel lines	
Construct and interpret linear graphs in real world contexts	
Factorise quadratics in the from $ax^2 + bx + c$ (M4)	
Add or subtract algebraic fractions with linear denominators (M4)	
Set up and solve quadratic equations using factors and the formula where the coefficient of $x^2 \neq 1$, and more complex equations (M4)	
Understand and use the gradients of perpendicular lines (M4)	

M4 Geometry and Measure Topics

Geometry and Measure Topics	Completed
Straight Lines	
Different Angles	
Angles on a straight line and full turn	
Angles in a triangle	
Angles in a quadrilateral	
Angles in parallel lines	
Time	
Timetables	
Length, mass and capacity	
Converting between units	
Properties of 2D shapes	
Perimeter	
Area of a square and rectangle	
Area of triangle	
Volume of cube and cuboid	
Surface area of cube and cuboid	
Parts of a circle	
Circumference	
Perimeter of shapes including pars of circles (1/2 and $\frac{1}{4}$ circles)	
Area of circles	
Area of shapes including parts of circles (1/2 and $\frac{1}{4}$ circles)	
Area by counting	
Area and perimeter of composite shapes	
Area of parallelogram, trapezium. Rhombus and kite	
Properties of 3D shapes	
2D representations of 3D shapes	
Volume of a prism	
Pythagoras Theorem	
Time, Distance and Speed	
Density	
Heartbeats per minute	
Pressure	
Miles per gallon	
Arc Length	
Area of a sector	
Surface area of a cylinder	
Volume and surface area of a cone	
Volume and surface area of a sphere	
Trigonometry	
Frustums (M4)	
Circle Theorems (M4)	

M4 Handling Data

Handling Data	Completed
Decision Tree Diagrams	
Questionnaires	
Venn Diagram	
Mean, Median, Mode and Range from a list of numbers	
Mean, Median, Mode and Range from a frequency table	
Mean, Median, Mode and Range from a grouped frequency table	
Pictograms	
Bar Charts	
Tally Charts	
Stem and Leaf Diagrams	
Pie Charts	
Line Graphs	
Distance tables	
Two-way tables	
Scatter Graphs	
Flow Diagrams	
Frequency Polygons	
Quartiles and interquartile range from a list of values	
Cumulative frequency tables	
Cumulative frequency curves	
Box plots	
Stratified sampling (M4)	
Histograms (M4)	