MATHS LEARNING JOURNEY 2025-26

School leavers

Transfer Exams

Tables and Probability
Two-way tables, frequency trees

Graphs and Charts
Pie Charts, Line graphs/charts

Angles in parallel lines and polygons
Angle rules, find missing angles

Interpret and Represent Data
Average and range. Continuous and discrete data.

Indices
Law of indices

Equations and Inequalities
Substitution, solving equations simplifying expressions

Sequences
Finding/using nth term, geometric sequences

Circles
Area and perimeter. Pi as a ratio.

Number sense
Rounding 1.s.f, Estimating, conversions

Standard Index Form
Compare, order, add, subtract, multiply and divide

Percentages
Convert, find % change, explore % greater than 100%

Area, Volume and Density
2D and 3D shapes

Symmetry and Reflection
Reflect on diagonal lines and using axes

Fraction and percentage of amount
Fraction/Percentage of amount, increase/decrease by percentage.

Perimeter and Area
Calculate perimeter and area of various polygons

Prime Numbers and Proof
Identify prime, square, triangular numbers. Conjectures

Sets and Probability
Venn diagrams, probability of events

End of Year Exams

YEAR 8

Proportion and Scale
Direct proportion, currency conversion

Multiply and Divide Fractions
Mixed number, Algebraic fractions

Directed Numbers
Add, subtract, multiply & divide directed numbers

Speed, Distance, Time
Conversion between units. Understanding distance-time graphs

Developing Number Sense
Mental arithmetic

Ratio
Express as, simplify, compare ratio

Algebraic Manipulation
Substitution, factoring/expanding with brackets

Coordinates and Graphs Plot co-ordinates, identify gradiesnts and questions of lines y = mx + c

Fraction, Decimal and Percentage
Understand the equivalent representations

Graphing Data
Work with various types of charts and graphs.

Rounding and estimation
Significant figures and estimating answers

Averages and Range
Mean, mode, median, range

Solving problems with four operations
Using formal methods with integers an decimals

Place Value, ordering and rounding
Read, write, order and compare integers & decimals

Expressions and equations
One-step linear equations using inverse

Algebraic notation and substitution
Find and substitute values into expressions

Sequences
Describe and continue linear and non-linear

YEAR 7

Measures
Converting metric, miles to kilometres and imperial

Ratio and proportion
Calculate ratio and use scale factors

Decimals
Multiplying and dividing decimals

Area and Perimeter
Regular and composite polygons

KS2 SATS

Position and Direction
Four quadrants, translation & reflection

Fractions
Adding, subtracting multiplying and dividing

Simple algebra
Solve one step and two-step functions and equations

Fraction, Decimals, Percentages
Percentages of amount

Statistics
Interpret Data Line Graphs & Pie Charts

Properties of Shape
Angles in a triangle and quadrilateral including properties of 3D shapes

Calculations Four operations
Long multiplication and long division

Place Value up to 10 Million
Read, write, order and compare

YEAR 6

End of Year Exams

Volume
Estimate and compare

Measures
Conversions - Cm, mm, km, ml, l and ml

Position and Direction
First quadrant, translation & reflection

Statistics Read, draw & interpret bar and line graphs

Properties of 2D shapes
- Rectangles, triangles & regular polygons

Area and Perimeter
Rectangles and compound shapes

Decimals and Percentages
Rounding, ordering and comparing decimals, Equivalent F,D,P

YEAR 5

Calculations Addition and Subtraction
Using formal methods

Fractions A finding equivalence, order and compare, add and subtract

Place Value up to 1 million
Read , write, order and compare

Multiplication and Division Factors, prime, Square and cube numbers Multiply and Divide by 10 100 100

Multiplication and Division
Multiplication up to 3 by 2 digits and Division up to 4 by 1 digits

Fractions B
multiply with same denominators

Topics				
Number	Geometry	Algebra	Ratio and proportion	Data and statistics