



KS3 MATHS CURRICULUM MAP

N Number **S** Shape
A Algebra **D** Data

YEAR 7

HT 1

- N Number**
 - Converting between FDP
 - Equivalent fractions
 - Improper and mixed fractions
 - Ordering FDP
- N Negative number**
 - Introduction to negative numbers
 - Adding and subtracting negatives
 - Multiplying and dividing negatives



HT2

- A Algebra**
 - Order of operations
 - Simplifying expressions
 - Substitution
 - Creating and solving equations
- S Angles**
 - Measuring and drawing angles
 - Basic angle facts
 - Angles in quadrilaterals and properties of quadrilaterals



HT3

- A Coordinates**
 - Plotting coordinates in all four quadrants
 - Plotting linear graphs, including horizontal and vertical lines
- D Handling Data**
 - Bar Charts
 - Pie Charts
 - Averages and range
 - Interpreting statistics



HT4

- N Fractions**
 - Add and subtract fractions
 - Find a fraction of a quantity
 - Multiplying and dividing fractions
- N Decimals**
 - Rounding, adding and subtracting decimals
 - Multiplying and dividing decimals by powers of 10
 - Multiplying and dividing decimals

$$\frac{1}{2}$$

HT5

- D Probability**
 - The probability scale
 - Theoretical probability
 - Experimental probability
- S Measurement**
 - Constructing triangles
 - Nets
 - Metric units
- S PAV**
 - Area, perimeter, volume and surface area of 2D and 3D shapes

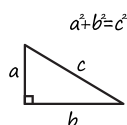
HT6

- N Percentages**
 - Writing one number as a percentage of another
 - Finding a percentage of a quantity
- S Transformations**
 - Reflections
 - Rotations
 - Translations
- N Number Patterns**
 - Fibonacci
 - Nth term



HT 1

- N Factors and Indices**
 - Highest Common Factor
 - Lowest Common Multiple
 - Prime Factor Decomposition
 - Reciprocals
- S Pythagoras**
 - Discover Pythagoras' Theorem
 - Use Pythagoras' Theorem



HT2

- A Algebra**
 - Construct, solve linear equations
 - Substitution
 - Simplify or transform algebraic expressions
 - Use formulae
- S Circles**
 - Parts of a circle
 - Circumference and area
- D Handling Data**
 - Averages from grouped data
 - Scatter graphs and lines of best fit

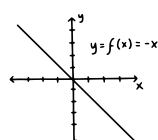
HT3

- N Ratio & proportion**
 - Relationship between ratio and proportion
 - Shape and ratio
 - Maps and scale drawings
- N FDP**
 - Convert between FDP
 - Percentages of amounts
 - Increase and decrease by a percentage
 - Percentage change

2:1

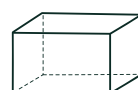
HT4

- A Algebra 2**
 - Substitution
 - nth term
 - $y = mx + c$
 - Real-life problems



HT5

- S Transformations**
 - Reflections, rotations, translations and enlargements
 - Combination of transformations
- S Prisms**
 - Area of 2D shapes
 - Surface Area and Nets
 - Changing between units
 - Volume



HT6

- S Angles & bearings**
 - Angle facts
 - Bearings
 - Interior and exterior angles of polygons
- D Probability**
 - Outcomes
 - Probability Spaces



YEAR 8

HT 1

- S Speed, Distance & time**
 - Speed
 - Distance-time graphs
- N Percentages**
 - Use multipliers
 - Repeated increase and decrease
 - Reverse percentages



HT2

- A Algebra**
 - Solving linear equations
 - Construct and solve non-linear equations
 - Solve simultaneous equations
 - Simple linear inequalities
 - Factorisation
 - Square a linear expression
- D Probability**
 - Tree diagrams for conditional events
 - Relative Frequency

HT3

- S Constructions**
 - Construct triangles, perpendicular bisector, angle bisector. 60, 30 and 45 angles
- S Trigonometry**
 - Define trigonometric ratios
 - Use trigonometry to find sides and angles
 - Bearings
- S Enlargement**
 - Negative scale factors
 - Similar area & volume

HT4

- D Handling Data**
 - Range and modal class
 - Bar, line and pie charts. Scatter graphs
 - Construct frequency tables and find the MMMR
- N Rounding & Standard Form**
 - Multiply and divide by any integer power of 10
 - Bounds
 - Write numbers in standard form
 - Estimation
 - x and ÷ by numbers between 0 and 1

HT5

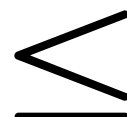
- N Bronze number**
 - Fractions to decimals
 - Comparing %
 - % change
 - Rounding
 - HCF/LCM
 - Index laws
 - Operations with fractions

Examinations and culture week



HT6

- A Bronze algebra**
 - Graphs (gradients, real-life, quadratic)
 - Inequalities
 - Changing the subject of a formula
 - Sequences



YEAR 9