

KS3 Maths Curriculum Plan 2014-15

Students will follow the plan below and develop their mathematical reasoning and fluency throughout. All groups have 7 lessons a fortnight.

Year 7	Content summary
Am I a Mathematician?	Integer Operations (including Powers and Roots), Number Properties.
Picture Sequences, FUNctions & Graphs	Sequences, Powers & Roots, Functions & Graphs, Coordinates & Transformations.
Pentominoes and Spacemen	Congruency & Symmetry, 2D Representations of 3D, Volume and Surface Area.
Equable Shapes	Congruency, Similarity and Scale Factor, Area and Perimeter of Shapes, Expressions.
The Average Student	Graphs, Charts & Diagrams, Using Averages, Ratio & Proportion, Fractions, Decimals and Percentages, Set Theory.
Litov's Mean Value Theorem	Decimal Calculations and Rounding.
The World of Work	Real Life Graphs, Calculations with Money and Time.
Building, Toys and Readability	Fractions, Decimals and Percentages, Calculations with Fractions, Calculations with Percentages, Outcomes of Events, Calculations with Probability.
Euler's Formula	3D Shapes
Think of a Number	Expressions, Equations, Negative Numbers
Dotty Shapes, Logo & Roamer	Angles on Lines, Angles in Polygons, Geometrical Properties.
Arithmagons	Expressions
Year 8	
The Best Box	Factors, Multiples & Primes, Volume and Surface Area, Representation of 3D Shapes.
To Spend or to Save?	Sequences and nth terms, Real Life Graphs, Functions and Graphs (including simultaneous solutions), Percentage Changes.
Exploring Calculations	Operations on Integers and Decimals, BIDMAS, Powers & Roots, Rounding and Estimation, Powers of 10.
Record Breaking and Personal Challenge	Graphs, Charts & Diagrams, Using Averages, Reading and Measuring, Fractions, Decimals & Percentages.
Circles, Pi & Pythagoras	Construction & Loci, Circles, Pythagoras' Theorem.
At the Fair Ground #1	Operations on Fractions, Probability of Events, Probability Calculations, Set Theory.
At the Fair Ground #2	Angles in Polygons, Angles on Lines & Points, Bearings and Direction, Ratio & Proportion, Geometrical Reasoning.
Recipes & Cooking	Proportional Reasoning, Working with Units.
Using Letters	Forming and Solving Equations, Expressions and Formulae, Negative Numbers.
Pointy Shapes	Coordinate Geometry, Geometrical Properties, Geometrical Reasoning, Area & Perimeter.
Princess Dido & the Legend of the Ox Skin	Area and Perimeter.
Exploring Enlargement & Transformation	Transformations, Enlargement & Similarity.