

KS4 Maths Curriculum Plan 2014-15

7 Hours Taught per Fortnight

Edexcel Linear Specification

<http://www.edexcel.com/quals/gcse/gcse10/maths/maths-a/Pages/default.aspx>

Full details of the units:

Topic	Content summary
Year 9	
In the Frame Investigation	Sequences and Nth Terms, Operations on Integers and Decimals including BIDMAS, Negative Numbers.
What have Mathematicians done for us?	Indices & Roots, Standard Form, Factors, Multiples & Primes, Rounding & Estimation.
Rectangles, Expressions and Equations	Forming and Solving Equations, Expressions and Formulae, Simultaneous Equations.
How Big Could it Be?	Forming and Solving Inequalities, Rounding and Estimating, Reading and Measuring.
Are There Fractions?	Calculations with Fractions.
Pythagoras' Theorem	Pythagoras' Theorem, Area and Perimeter, Functions and Graphs, Trigonometry.
Angle Hunt	Angles on Lines, Angles in Polygons, Geometrical Reasoning.
Coke Cans and Food Boxes	2D Representations of 3D shapes, 3D Shapes, Volume & Surface Area, Area & Perimeter, Ratio & Proportion, Working with Units.
Sports Profiling	Graphs, Charts & Diagrams, Using Averages, Compound Measures, Working with Units.
How can I be more Money Savvy?	Percentage Changes, Real Life Graphs, Proportional Reasoning, Ratio & Proportion.
Would you Place Money on It?	Probability of Events, Probability Calculations, Set Theory.
Transformations and School Plans	Transformations, Geometrical Properties, Enlargement & Similarity, Trigonometry.
Construction and Movement	Loci & Construction, Congruency & Similarity.
What Can Angry Birds Teach us about Graphs?	Functions and Graphs, Coordinate Geometry, Forming and Solving Inequalities, Sequences & Nth Terms.