



Curriculum Statement

Maths

In KS4 Maths students cover the GCSE course For AQA. The contents build on their previous learning and develop their ability to use their knowledge to solve real life and more abstract mathematical problems. The AQA Maths GCSE provides students with strong maths skills, enabling them to solve problems using more than one topic at a time. The topics of Number, Algebra, Shape, Data and Probability will be further developed, with new content covered, as well as complexity added allow problems to be solved using previous learning. New content taught during this Key Stage includes more complex work with surds and indices for Number, as well as bounds. Percentages will now include complex cases of compound interest, as well as more complex reverse percentages. Quadratic sequences, algebraic fractions and more complex rearranging of formulae, as well as more complex methods to solve quadratics. Shape will include the sine and cosine rule, volume and surface area of spheres and cones and circle theorems. Data will include data presented in different ways including histograms, frequency polygons and box plots. Data will be analysed using interquartile range and averages estimated from frequency tables.