Maths Curriculum Information

YEAR 7: Students are taught in the same teaching groups as in other subjects. Students will be consolidating and extending the knowledge gained at Primary School.

Pupils will be studying number work (types of number, numerical calculation methods with/without a calculator, HCF/LCM, fractions/percentages/decimals, etc); algebra (forming simple expressions, simplifying, solving simple equations, etc); data handling (averages & range, representing data on graphs, probability, etc); shape, space and measure (area/perimeter, basic volume, angles in triangle/straight line, etc).

YEAR 8: Students are taught in sets according to mathematical ability. Multiple sets are taught during the same periods, so students can easily be moved up/down in order to ensure they are in an appropriate set.

Pupils will be building on and extending their Year 7 work. They will be studying number work (prime factor decomposition, rules of indices, decimal calculation, etc); algebra (use of brackets in algebra, further solving, substitution involving indices, plotting linear graphs, etc); data handling (extending averages to frequency tables, further graphical methods, probability of consecutive events); shape, space and measure (compound areas and volume, further angle rules, constructions, etc)

YEAR 9: Students are again taught in sets by mathematical ability and can also be moved in order to ensure a student is appropriately challenged.

Pupils will be building on all the work covered so far in Key Stage 3 and extending to prepare for GCSE. They will be studying number work (more complicated numerical calculation, further index rules, standard form, compound percentage change, surds, etc); algebra (forming and solving further equations, plotting other graphs, factorisation, inequalities, etc); data handling (using statistics to make inferences/draw conclusions, probability involving construction of tree diagrams, further graphical methods, etc); shape, space & measure (Pythagoras' Theorem, trigonometry in right-angled triangles, loci, sum of interior/exterior angles, etc).