

## Mastery at Year 13

To tackle less routine problems where they need to apply techniques they have learnt to a range of problems that involve topics from more than one type

Mastery at Year 12
Apply all topics learnt to questions that are unfamiliar by developing the skills to interpret what the questions is asking for

## Mastery at Year 11

Fundamentals in completing the squares, circle theorems, congruent proofs, cumulative frequency/box plots/histograms, equation of a circle, surface area, nonlinear graphs, product rule for counting, algebraic fractions and proofs, gradient of curves, area under curves, transformation of curves. Fluency and knowledge build up in solving equations, angles in polygons and parallel lines, volume of 3D shapes, simultaneous equations, probability notation and tree diagrams, straight line graphs

## Mastery at Year 10

Fundamentals in surds, upper and lower bounds, error intervals, equations and geometry, graphical simultaneous equations, linear and quadratic sequences,functions,recurring,decimals,proofs,vectors,direct and inverse proportion. Fluency and knowledge build up in LCM/HCF-venn diagrams, simultaneous equations, bearings and trigonometry ,compound measures

## Mastery at Year 9

Fundamentals on ratio and proportion, scale factor(length, area and volume), linear sequences, circles, trigonometry and transformations, statistical data. Fluency in constructions and loci/triangle and congruence, linear graphs, algebraic manipulations(rearranging)

## Mastery at Year 8

Fundamentals on laws of indices how to find equation of a straight line, probability, standard form, compound measures, Pythagoras theorem,3-D shapes. Fluency in algebraic thinking, angles, fractions, algebraic thinking ,averages and spread,

## Mastery at Year 7

Build confidence and depth of understanding on core maths skills required for future problem solving: Number skills, Algebraic manipulation, Fractions, Percentages \& Ratio ,2D shapes

