

Past paper GCSE questions are linked throughout the Y10 curriculum, in the form of progress checks at the end of each topic.

The identified key concepts are taught for depth both at **procedural knowledge** level but more importantly the **application** of these key skills

Weekly homework is set on Sparx Maths. The tasks set on homework are sequenced to allow students to cover content previously covered in class.

# Mathematics Curriculum Map Y10 F

Summative assessments, based on the content covered as well as areas of previous weakness are sat once per half term.

## STATISTICS AND PROBABILITY:

Column vectors, adding and subtracting vectors, mixed transformations, averages from frequency tables, tree diagrams

## FURTHER ALGEBRA

Harder rearranging formulae, plotting a straight line graph, equation of a line, solving quadratic equations, using quadratic graphs, velocity time graphs, cubic and reciprocal graphs, simultaneous equations

Term 3

## SHAPE SPACE & MEASURE

Area of compound shapes, area and perimeter of circles and half/quarter circles, arc length and area of a sector, volume and surface area of prisms and other 3D shapes, interior and exterior angles, Pythagoras' Theorem, trigonometry

Term 2

## RATIO AND PROPORTION

Solve problems involving compound measures, such as speed, pressure and density, direct proportion using the unitary method, problems involving ratio, congruent triangles, loci problems

## ALGEBRA

Expanding double brackets, factorising quadratics, forming and solving equations, finding and using the nth term, negative and zero indices, calculations with standard form

## NUMBER

Calculations with mixed numbers, calculations with decimals, repeated percentage change, simple and compound interest, using prime factorisation to find HCF and LCM, estimation, using error intervals

At the end of each topic, students will complete a progress check that will inform future short term and medium term planning.

Retrieval work every lesson is based on areas of weakness from previous assessments/progress checks as well as recently covered topics

Term 1