



Maths Curriculum Overview - Year 11 Foundation Plus

	Unit	Details
Autumn One	Fractions, indices and standard form Congruence, similarity and vectors	<p>We will start this year by consolidating previous work on fractions before learning to use the laws of indices. This will then allow pupils to write large and small numbers in standard form, then performing the four operations with standard form. Many of the concepts covered in Year 10 work on 2D shapes will be reinforced when using similarity to solve problems. Pupils will learn to use congruence to work out unknown angles and sides, before moving on to vector geometry; adding and subtracting vectors and finding a resultant.</p>
Autumn Two	More Algebra	<p>Pupils' understanding of graphs from the start of Year 10 is now developed by drawing and interpreting graphs of cubic and reciprocal functions. This will enable them to solve simultaneous equations graphically, before solving using algebraic methods, changing the subject of a formula and proving identities using algebra.</p>
Spring One	Consolidation and Revision	<p>Depending on timings, some classes may need to complete or revisit certain topics in this half term. Others will be ready to move on to the revision stage where pupils are required to switch between topics, as in an exam.</p>
Spring Two		<p>Having encountered all content, pupils will begin the phase of consolidation and revision. This will consist of lessons following a mix of strategies such as individual topic revision, exam practice questions, non-calculator methods, walking talking mock exams etc. The areas which are focussed on will be informed by regular practice papers sat under exam conditions in class, and occasionally in the hall. These are teacher marked and results are entered on Pinpointlearning.co.uk, building up a matrix of weak/strong areas which can also inform the individual's revision. The website also generates a follow-up question booklet of areas to improve which will be done in class.</p>
Summer One		<p>Gradually scaffolding is removed and pupils should become more proactive in their own revision, suggesting areas to revise as a class, or questions they have found difficult. Sparx maths is a key resource to develop pupils' learning, and resources such as Edexcel's mock set papers and "Aiming for" papers will be posted on Google Classroom to help support independent study.</p>