



Maths Curriculum Overview - Year 11 Foundation

	Unit	Details
Autumn One	Probability Congruence, similarity and vectors	Probability is a topic last encountered in Year 8, now we develop those concepts to predict and interpret probabilities based on experimental data. Pupils will learn to understand the language of sets and Venn diagrams and work out probabilities using tree diagrams. This culminates in solving probability problems involving events that are not independent. 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.
Autumn Two	Multiplicative reasoning Targeted remaining topics	Using previous understanding of multiplicative change, pupils will calculate a percentage profit or loss, express a given number as a percentage of another in more complex situations and find the original amount given the final amount after a percentage increase or decrease. They will then solve problems involving compound measures and use ratio and proportion in measures and conversions. We will then target key concepts and skills from constructions, quadratic equations, perimeter, area and volume and standard form.
Spring One	Consolidation and Revision	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 students are required to switch between topics, as in an exam.
Spring Two		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.
Summer One		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.