LatimerArts College Maths Department

Foundation Scheme of Work

Year	8	Term 6	
Stage	Description		
	Section A Constructions and Loci	Section B Pythagoras Theorem	Section C Probability sets and Venn Diagrams
Emerging	 Use compasses to construct clean arcs Know standard mathematical constructions Can construct and equilateral triangle. 	 Can calculate the area of a square using basic knowledge of square numbers. Know Pythagoras' theorem 	 Determine the probability of an event happening from a worded example. Give probabilities in an appropriate notation.
Developing	 Choose techniques to construct 2D shapes; e.g. rhombus Use ruler and compasses to construct the perpendicular bisector of a line segment 	 Identify the hypotenuse in a right-angled triangle. Know when to apply Pythagoras' theorem 	 understand and use relative frequency as an estimate of probability. Make predictions using relative frequency.
Secure	 Use ruler and compasses to bisect an angle Identify when an angle bisector is needed to solve a loci problem 	 Calculate the hypotenuse of a right-angled triangle using Pythagoras' theorem Calculate one of the shorter sides in a right-angled triangle using Pythagoras' theorem 	 Can organise data into a Venn diagram. Use a Venn diagram to calculate the probability of an event happening.
Excellence	 Understand the meaning of locus (loci). Know how to construct the locus of points a fixed distance from a point (from a line). Identify when to use the locus of points a fixed distance from a point (from a line). 	Solve a complex area or perimeter problem, where Pythagoras is needed to find a missing side length.	 Can construct a Venn diagram, using it to sort data. Understands how to then use the Venn diagram to give probabilities. Understands notation used to identify sets and probability of an event happening.