

KS4 Learning Overview

Maths (Higher Tier)

Exam Board: Edexcel

Year 10		
Term	Topics	Extra learning opportunities
Autumn 1	 Perimeter, area & circles 3D forms & volume, cylinders, cones & spheres Accuracy & bounds 	Research task: If the circumference of a circle is directly proportional to the diameter, what is the constant of proportionality? Who were the first people to use this constant?
Autumn 2	 Transformations Constructions, loci & bearings Solving quadratic & simultaneous equations 	Research task: What is the Angle Trisection Problem?
Spring 1	InequalitiesProbability	Research task: Who conceived the Venn diagram and when? Research task: What is the probability of winning the EuroMillions jackpot? How is this calculated?
Spring 2	 Multiplicative reasoning Similarity & congruence in 2D & 3D 	
Summer 1	 Graphs of trigonometric functions Further trigonometry 	Research task: What is the ASTC diagram used for?
Summer 2	 Collecting data Cumulative frequency, box plots & histograms 	Research task: What are the origins of the tally marking system?