The Beaconsfield School
A Specialist Arts College

TBS Curriculum Map

Year: …10 (Grades 1-5 or 6 SoW)…. **Subject: …Mathematics……**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme/Topic	Standard Form Modelling Graphs Transformations	Pythagoras Introduction to Statistics	Constructions Inequalities and formulae. Number Skills Review	Polygons Simultaneous Equations	Trigonometry Quadratic Equations Compound measures	Surds Advanced inequalities Congruence and Similarity Probability
Skills	Express and manipulate numbers in standard form. Produce and interpret distance time and velocity time graphs. Transforming 2D shapes with reflections, rotations, enlargements and translations.	Use of Pythagoras' Theorem in 2D and 3D. Calculation of key statistics from raw data and (grouped) frequency tables.	Constructions of triangles and bisectors. Solving and representing linear equalities Rearranging formulae to change the subject.	Review of fractional and proportional skills. Interior and exterior angles in polygons. Solving linear simultaneous equations by elimination.	Forming and solving quadratic equations by factorising and formula. Use of trig ratios in right angled triangles Use and conversion of compound measures.	Combining and simplifying surds. Solving and plotting inequalities Identifying and working with congruent and similar shapes. Probability of single and combined events.
Knowledge	Graph plotting techniques for contextual graphs. Relation of reflections and rotations to symmetries	Application of Pythagoras' Theorem to coordinates and other 2D contexts. Interpretation and comparison of statistics	Application of construction skills to loci Rearrangement skills as key technique of equation solving.	Generalisation of angle results for n sided polygons	Standard values of trig functions from key triangles	Feasible regions satisfying multiple inequalities Area and Volume scale factors Venn diagrams in probability
Cultural Capital	Velocity and acceleration as gradients	Use of statistics to summarise and represent data sets			Application of trigonometry to problem solving	Use of graphical methods to solve inequations
Curriculum overlap						