

TBS Curriculum Map

Year: ...10 (Grades 1-4 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 and Quadratic Equations Trigonometry	Compound measures Congruence and Similarity Probability	2D and 3D Shapes Ratio and Proportion Review Recap of Linear and Quadratic Functions
Skills	Express and manipulate numbers in standard form. Produce and interpret distance time graphs. Transforming 2D shapes with reflections, rotations, enlargements and translations.	Use of Pythagoras' Theorem in right angled triangles. 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. Use of trig ratios in right angled triangles	Use and conversion of compound measures. Identifying and working with congruent and similar shapes. Probability of single and combined events	Area and Arc Length of Sectors Volume and surface area of prisms, pyramids and cones Review of proportional reasoning Solving linear and quadratic equations
Knowledge	Application of graph plotting techniques to distance time 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	Application of SUVAT equations Application of scale factor to area and volume Use of Venn diagrams in probability	Application of proportion to best buy problems
Cultural Capital	Understanding velocity as the rate of change of distance with regard to time	Use of statistics to summarise and represent data sets		Application of trigonometry to problem solving		Use of graphical methods to solve equations
Curriculum overlap						

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