

TBS Curriculum Map

Year: ...8 (Consolidate SoW)....

Subject: ...Mathematics.....

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme/Topic	Application of Number	Fractions Sequences and Equations	Solving Equations Graphing & Properties of Shapes	Triangles and application of Ratio	Application of Percentage Circles and 3D shapes	Introduction to trigonometry Data Handling & Probability
Skills	Calculating and using averages and range Percentage calculations. Factors, multiples, primes and powers.	Arithmetic with fractions. Identifying and generalising linear sequences	Solving linear equations Plotting graphs of linear functions. Area, Perimeter of simple shapes.	Converting metric units Construction of triangles. Pythagoras' Theorem. Solving direct and inverse proportion problems	Area and Circumference of circles and sectors. Volume and surface area of cuboids and prisms.	Use of the sine ratio in finding the opposite side. Gathering data and presenting graphically. Probability of single, combined and experimental events
Knowledge	Application of decimals to percentage calculations, especially compound interest and taxation. Prime numbers as the building blocks of the whole numbers.	Use of generalisation to describe sequences and patterns.	Application of balancing method to solve and rearrange equations and formulae Application and interpretation of distance time, velocity-time and conversion graphs.	Application of Pythagoras' Theorem.		Sine ratio as a property of the unit circle, and limited application to right angled triangles. Suitability of different graphical formats. Application of the AND and OR rules of probability to complex scenarios.
Cultural Capital	Misleading use of statistics.		Introduction to numerical methods of equation solving.		Pi as an inherent property of circles	Avoiding bias in samples and presentation of data
Curriculum overlap						