

## TBS Curriculum Map

Year: ...11 (Grades 1-5 or 6 SoW)....

Subject: ...Mathematics.....

|                           | Autumn 1  | Autumn 2  | Spring 1  | Spring 2   | Summer 1   | Summer 2 |
|---------------------------|---|---|---|--|--|----------|
| <b>Theme/Topic</b>        | 2D and 3D Shapes<br>Upper and Lower Bounds<br>Advanced Data Handling  | Ratio and Proportion Review<br>Recap of Linear and Quadratic Functions<br>Advanced Algebra  | Circle Theorems<br>Advanced Proportion<br>Vectors<br>Topic Recaps from PPE1   | Topic Recaps from PPE2   | Topic Recaps from PPE2   |          |
| <b>Skills</b>             | Area and Arc Length of Sectors<br>Upper and lower bounds of quantities and calculations<br>Volume and surface area of prisms, pyramids and cones<br>Cumulative frequency curves, box plots and histograms | Solving linear and quadratic equations.<br>Completing the square.<br>Graphing non-linear functions.<br>Identify coefficients in identities.<br>Simple algebraic fractions<br>Algebraic approaches to percentage and proportional change | Solve angle problem using circle theorems<br>Equation of a circle<br>Finding simple resultant vectors<br>Using the classes Question Level<br>Analysis reports from previous Progress Checks and Pre Public Exams areas of weaknesses will be identified, repeated and retested to check retention | Using the classes Question Level<br>Analysis reports from previous Progress Checks and Pre Public Exams areas of weaknesses will be identified, repeated and retested to check retention | Using the classes Question Level<br>Analysis reports from previous Progress Checks and Pre Public Exams areas of weaknesses will be identified, repeated and retested to check retention |          |
| <b>Knowledge</b>          | Estimation of statistics from cumulative frequency curves.<br>Necessity for frequency density   | Derivation of quadratic formula<br>Composite functions<br>Extension of fractions to include algebraic terms.  | Proof of key circle theorems.<br>Gradients of radii and tangents.<br>Solve vector problems.   |  |  |          |
| <b>Cultural Capital</b>   |   |   | Construction of rigorous proofs   |  |  |          |
| <b>Curriculum overlap</b> |   |   |   |  |  |          |