



Curriculum Plan-Subject: **Mathematics**

Stage 10 (2)

Autumn Term	Spring Term	Summer Term
<p>Investigating properties of shapes - Use scale factors to find lengths in similar triangles. Use trigonometry in 2 dimensions (12 hours) Calculating - Calculate with roots and integer indices (1 hour) Solving equations and inequalities I - Solve simultaneous equations in 2 variables (6 hours) Mathematical movement I - Complete and describe transformations and explore links between similarity and congruence (4 hours) Algebraic proficiency: tinkering - Expand and factorise quadratic expressions(6 hours)</p>	<p>Exploring fractions, decimals and percentages - Set up and solve problems that involve compound growth and decay. (6 hours) Solving equations and inequalities II - Set up and solve quadratic equations and use algebraic and graphical methods to solve them interpreting the results appropriately.(8 hours) Analysing statistics - Understand how to take a sample and comment on its validity.(4 hours) Mathematical movement II - Use vector notation to describe and solve problems in a 2-D plane (4 hours)</p>	
HALF TERM		
<p>Proportional reasoning - Interpret equations and graphs that describe direct and inverse proportion (8 hours) Pattern sniffing - Use simple geometric sequences (2 hours) Calculating space - Calculate the volume and surface area of spheres, pyramids cones and composite solids (8 hours) Algebraic proficiency: visualising - Interpret and use key features of quadratic functions (4 hours)</p>		

Bishop Milner Catholic College

