



Stage 9

Autumn Term	Spring Term	Summer Term
<p>Calculating - Calculate using laws of Indices and standard form. Use error intervals to describe bounds for rounded numbers (10 hours)</p> <p>Visualising and Constructing - Use plans and elevations to represent 3-d shapes in 2-D. Complete standard constructions using ruler and compasses (10 hours)</p> <p>Algebraic Proficiency : Tinkering - Use appropriate mathematical calculations to expand and factorise expressions involving quadratic terms. Construct equations and expressions based on worded statements (6</p>	<p>Solving Equations and Inequalities - Use and represent inequalities (6 hours)</p> <p>Calculating Space - Use the language of circles to calculate with parts of circles. Know and use Pythagoras' Theorem in 2-D. Find the surface area of any right prism, cylinder or compound shape made from cuboids or triangular prisms(14 hours)</p>	<p>Solving Equations and Inequalities - Solve linear simultaneous equation using elimination, substitution or graphical methods.(6 hours)</p> <p>Understanding Risk - Use tree diagrams as a way of representing consecutive events. Calculate probabilities for consecutive events (8 hours)</p> <p>Presentation of Data - Construct and use time series and scatter graphs to make predictions (6 hours)</p>
HALF TERM		
<p>Algebraic Proficiency : Tinkering - Use appropriate mathematical calculations to expand and factorise expressions involving quadratic terms. Construct equations and expressions based on worded statements (4 hours)</p> <p>Proportional Reasoning - Use proportional relationships to calculate with enlargements, compound measures and graphical representations.(10 hours)</p> <p>Pattern Sniffing - Use and find nth terms for linear and simple quadratic sequences (8 hours)</p> <p>Solving Equations and Inequalities - Use and</p>	<p>Conjecturing - Use know angle facts to prove a variety of geometrical facts using correct mathematical notation. Know and use rules for congruency of triangles (6 hours)</p> <p>Algebraic Proficiency : Visualising - Plot graphs of any linear or quadratic function. Interpret key features of graphs stating their relevance. Plot and use graphs of speed distance and time functions. Plot graphs of exponential functions (12 hours)</p>	<p>Investigating properties of shape - Calculate the lengths in similar triangles. Know how to use the trigonometric relationships to solve problems in right angled triangles. (12 hours)</p>

Bishop Milner Catholic College

