



Curriculum Plan-Subject: Mathematics

Stage 7

Autumn Term	Spring Term	Summer Term
<p>Numbers and the Number System - Use factors multiples and primes to solve problems, use basic power and root notation, comment on linear sequences (10 hours)</p> <p>Counting and Comparing - Order numbers given in different forms including negatives(4 hours)</p> <p>Calculating - Apply formal methods and the order of operations to calculations involving decimal numbers(10 hours)</p>	<p>Exploring fractions decimals and percentages - Convert between improper fractions and mixed numbers. Use fractions and percentages to compare quantities (4 hours)</p> <p>Proportional reasoning - Use ratio to split a quantity (4 hours)</p> <p>Pattern Sniffing - Form and describe sequences given rules (4 hours)</p> <p>Measuring Space - Use conversions to solve problems involving length, area and currency(6)</p>	<p>Solving Equations and Inequalities - Solve 1, 2 and 3 step equations in one unknown including those that don't have whole number answers. (6 hours)</p> <p>Calculating Space -Solve problems related to the area of parallelograms, triangles and trapezia. Find the volume and surface area of cubes and cuboids (6 hours)</p> <p>Checking Approximating and estimating - Round numbers to an appropriate number of decimal places in order to estimate.(2 hours)</p>
HALF TERM		
<p>Visualising and Constructing - Describe and construct shapes using correct mathematical notation and appropriate instruments(6 hours)</p> <p>Investigating properties of shape - Know properties of special triangles and quadrilaterals and use them to solve angle problems(6 hours)</p> <p>Algebraic proficiency: Tinkering - Simplify expressions using like terms and correct algebraic notation. Use substitution to find inputs and outputs (9hours)</p>	<p>Investigating angles - Solving multi-step problems using known angle facts (4 hours)</p> <p>Calculating fractions decimals and percentages - Calculate using the 4 operations on numbers written as fractions. Use calculator and non-calculator methods to find percentages of quantities and use these to solve problems. (12 hours)</p>	<p>Mathematical Movement - Know the conventions of basic lines on a co-ordinate grid in order to complete basic transformations including rotations, reflections and translations (8 hours)</p> <p>Presentation of data - Construct and interpret an number of graphs and charts making inferences about their distributions (6 hours)</p> <p>Measuring data - Calculate averages and the range from a variety of different sources commenting and comparing the results(6 hours)</p>

Bishop Milner Catholic College

