

Subject: Mathematics – Lent Term

	Progress objective 1 Number	Progress objective 2 Algebra	Progress objective 3: Geometry
Pathway 1	<ul style="list-style-type: none"> Order positive and negative decimals Round numbers to two or three decimal places Add and subtract integers or decimals Multiply and divide integers or decimals Use knowledge of place value to calculate the product of two decimals where original fact is given Find equivalent fractions, decimals and percentages Express one number as a percentage of another Find the outcome of a given percentage increase or decrease 	<ul style="list-style-type: none"> Solve simple linear equations with integer coefficients Solve two-step linear equations with integer coefficients Substitute integers into formulae and solve Solve equations of the form $a(x +/– b) = c(x +/– d)$ Find a positive and negative square root as a solution of an equation involving x^2 Construct and solve equations of the form $a(x +/– b) = c(x +/– d)$ Use systematic trial and improvement to find the approximate solution to equations 	<ul style="list-style-type: none"> Solve simple geometrical problems, using reasoning Calculate angles in a triangle Identify all the symmetries of 2-D shapes Find co-ordinates of points determined by geometric information Classify quadrilaterals by their geometric properties Calculate the interior and exterior angles of regular and irregular polygons
	Progress objective 1 Number	Progress objective 4 Ratio and Proportion	Progress objective 5: Probability and Statistics
Pathway 2	<ul style="list-style-type: none"> Compare fractions. Simplify fractions Calculate with fractions. Work with equivalent fractions, decimals and percentages. Find percentages of amounts. 	<ul style="list-style-type: none"> Solve problems involving direct proportion. Understand and use ratios. Use fractions to compare proportions. Use percentages to compare proportions. 	<ul style="list-style-type: none"> Use the vocabulary of probability. Understand and use the probability scale from 0 to 1. Calculate probability based on equally likely outcomes. Calculate the probability of an event not happening. Calculate experimental probability.
	Progress objective 1 Number	Progress objective 3: Geometry	
Pathway 3	<ul style="list-style-type: none"> Use the priority of operations Multiply 3-digit numbers by a single digit Round numbers up or down Recognise and use multiples and factors Apply simple tests of divisibility Find common factors and primes Recognise and use common factor, HCF and LCM Choose suitable units to estimate or measure length, mass and capacity Read a variety of scales Draw and measure lines to the nearest millimetre (in mm) Know the value of each digit in a number Order decimals (including in context of measures) Convert and order metric measurements Recognise and extend number sequences by counting in decimals. Add and subtract decimal numbers Round decimals to one decimal place or to the nearest whole number Enter and interpret numbers on a calculator (decimals and money) 	<ul style="list-style-type: none"> Identify right angles, perpendicular and parallel lines Recognise left and right, anticlockwise and clockwise Recognise quarter, half and three-quarter turns Label lines and angles correctly Identify acute, obtuse and reflex angles Estimate the size of angles Use a protractor to draw acute angles to the nearest degree Know the sum of angles on a straight line and round a point 	