

Year 7					
Term 3					
Learning Objective		Decimals and measures	Lines and angles	Sequences and graphs	
Learning Outcome					
<b>Descriptor</b>	<b>Exceptional</b>	*Use column multiplication with decimals *Convert between fractions, decimal and percentages *Apply decimal skills to a variety of contexts *Divide integers and decimals by other decimals using the equivalence of divisions	*Identify alternate and corresponding angles *Develop the concept of proof *Calculate interior angles of a regular polygon *Calculate exterior angles of a regular polygon	*Recognise the link between a linear sequence and a linear equation plotted on a graph *Problem solve using the nth term rule of a sequence	
	<b>Good</b>	*Solve perimeter problems *Work out the area of compound shapes made from rectangles *Round numbers to 2 or more decimal places *Order decimals with up to 3 decimal places	*Calculate missing angles in more complex problems involving triangles, quadrilaterals, straight lines and vertically opposite angles *Give clear reasoning using appropriate mathematical vocabulary	*Plot straight line graphs using a table of values *Work out the position to term rule (nth term rule) of a sequence	
	<b>Developing</b>	*Use short division to divide decimal numbers by one-digit integers *Convert metric units of length, mass and volume *Order decimals with up to 2 decimal places *Round to one decimal place *Use place value to multiply double digit integers by double digit decimals *Work out the perimeter of shapes *Work out the area of rectangles	*Know that angles in a triangle sum to 180 *Know that angles on a straight line sum to 180 *Know that angles in a quadrilateral sum to 360 *Use the above facts to calculate missing angles in simple problems *Measure angles to the nearest degree *Draw angles to the nearest degree *Know the names and properties of types of triangles and quadrilaterals	*Plot co-ordinate points to mke a straight line graph *Find the next term in a given sequence *Identify the term-to-term rule of a given sequence *Generate a sequence given a first term and a term-to-term rule *Identify the co-ordinates of the mid point of a given line segment *Recognise, name and plot line graphs parallel to the axes	
	<b>Foundation</b>	*Read scales *Choose suitable units of measure *Write numbers in words and figures *Write a decimal shown by a diagram *Name the place value of tenths and hundredths *Convert metric units of length *Draw lines to the nearest mm *Add and subtract decimals *Round to the nearest 100, 10 and integer *Use place value to multiply double decimal numbers by a single digit integer	*Know how many degrees are in a right angle and a full turn *To describe direction of turn (clockwise or anticlockwise) *Recognise the 8 key points on a compass *Identify parallel lines and perpendicular lines *Recognise acute and obtuse angles *Estimate the size of angles	*Read values accurately from scales *Read values from real life graphs *Plot coordinates accurately *Correctly identify the x and y axes *Identify the co-ordinates of a given point *Identify outputs of a function *Use a function machine to generate coordinate points	