



Mathematics – Y7 Assessment Descriptors

	Foundation	Developing	Securing	Exceeding	Excelling
Year 7 Autumn term	<p>Confidently and independently be able to...</p> <ul style="list-style-type: none"> Find next terms in simple linear sequences. Draw the next terms in a picture sequence. Understand and use < and > symbols. Add and subtract positive integers up to 50 without a calculator. Have a reasonable knowledge of times tables up to 10 x10. Order positive and negative integers. Identify lines of reflection symmetry in basic 2D shapes and co-ordinates in the first quadrant. Reflect basic shapes in horizontal and vertical lines. Order numbers up to 1000, including decimals with 1 decimal place. Use place value to make approximations. Round numbers to nearest 10, 100, 1000. Find frequencies using tally marks. Complete a frequency table. Solve basic number problems using proportion. Write ratios from pictures. 	<p>Confidently and independently be able to...</p> <ul style="list-style-type: none"> Describe a sequence using words. Identify missing terms in a sequence. Add and subtract positive integers mentally and using written methods. Solve simple addition and subtraction calculations involving negative numbers. Identify all lines of symmetry of a shape. Identify rotational symmetry. Enlarge shapes without a centre. Multiply and divide whole numbers by 10, 100, 1000. Order decimals to 3 decimal places. Find the mode, median and range for a set of data. Write simple equivalent ratios. Simplify ratios. 	<p>Confidently and independently be able to...</p> <ul style="list-style-type: none"> Generate sequences from geometrical patterns. Given the general rule of a linear sequence, generate terms. Multiply and divide by a single digit positive integer and negative integers. Reflect shapes in diagonal mirror lines of symmetry. Translate shapes horizontally and vertically. Rotate shapes through 90, 180, 270 degrees about a centre. Identify co-ordinates in all four quadrants. Multiply and divide non integers by 10, 100, 1000. Round to one significant figure. Multiply by 0.1, 0.01 or 0.001. Multiply and divide by multiples of 10, 100 and 1000. Calculate the mean, median, mode and range for a set of data. Choose appropriate measures of average for different data sets. Divide amounts into a given ratio. 	<p>Confidently and independently be able to...</p> <ul style="list-style-type: none"> Find the formula for sequences generated from simple geometrical patterns and rules for ascending linear sequences. Multiply and divide any 3 digit by 2 digit numbers. Use efficient written methods of with positive and negative integers. Identify transformations. Perform basic single transformations (reflections and translations) on a Cartesian grid. Rotate shapes about a centre on a Cartesian grid (centres may not be at the origin). Estimate calculations using figures rounded to one significant figure. Round to 2 or more significant figures and to 1 or 2 decimal places. Make decisions based on given averages and range. Solve problems involving averages. Understand the effect on the mean and median of altering the data. Convert between ratios and fractions. Calculate original amounts when given one part using ratios. 	<p>Confidently and independently be able to...</p> <ul style="list-style-type: none"> Find general rules for ascending and descending linear sequences. Generate terms of non - linear sequences. Choose correct calculation method to solve problems. Enlarge 2-D shapes, given a centre of enlargement and a positive whole-number scale factor on a Cartesian grid. Describe single transformations fully using appropriate mathematical language. Write large numbers using standard form. Use efficient written methods to multiply by decimals; divide by decimals by transforming to division by an integer. Convert between numbers written in ordinary form and in standard form. Find the mean and median of discrete data given in a table. Estimate the mean for grouped data. Solve problems by changing ratios. Find lengths on similar triangles.