

	Working Towards	Expected Standard	Greater Depth
	By the end of Year 8 a student should be able to:	By the end of Year 8 a student should be able to:	By the end of Year 8 a student should be able to:
A U T U M N	<p>Can find the next term in a range of sequences including linear, geometric and fibonacci</p> <p>Can generate a sequence from a given rule</p> <p>Can solve simple one step and two step equations using function machines</p> <p>Can state the numbers that satisfy an inequality</p> <p>Can draw an inequality on a number line</p> <p>Can substitute into simple formula</p> <p>Able to represent a repeated multiplication in index form</p> <p>Can square and cube roots numbers</p> <p>Can apply the three basic laws of indices separately</p>	<p>Able to find the nth term of a sequence from numbers and pictorial representations</p> <p>Can generate a sequence from a nth term</p> <p>Can calculate if a number is in a sequence through solving equations</p> <p>Can solve two step equations involving answers that are negatives and decimals</p> <p>Can solve basic equations involving applications such as perimeter and angles</p> <p>Can solve an inequality displaying answer on a number line</p> <p>Can substitute into complex formula involving negative and indices</p> <p>Can use several index laws in one question to simplify an algebraic expression involving multiple variables</p> <p>Can expand and factorise single brackets</p>	<p>Can solve multi step equations that involve fractions and algebraic simplification</p> <p>Can solve equations where the perimeter of two shapes needs to be equated</p> <p>Can solve an inequality between two intervals for x</p> <p>Can simplify expressions involving fractional powers</p> <p>Can expand and simplify multiple singular brackets</p>

S P R I N G	<p>Can measure and draw angles to 1 degree accuracy</p> <p>Can find missing angles on lines, points and triangles</p> <p>Can find angles in parallel lines</p> <p>Can write a ratio and simplify</p> <p>Reduce a ratio to its simplest form</p> <p>Can interpret a scale on a diagram and or map</p> <p>Can draw and measure a bearing</p>	<p>Can create a variety of constructions using a compass and protractor including perpendicular bisectors</p> <p>Can find angles in parallels lines using multiple rules</p> <p>Can find internal and external angles of polygons</p> <p>Can share in a ratio given the total or part</p> <p>Can use ratio to convert between two currencies</p> <p>Can calculate bearings using angle facts</p> <p>Can draw a plan and elevation of shapes</p>	<p>Can choose a appropriate construction to find a locus of a point</p> <p>Can find angles in parallels using solving equations</p> <p>Can problem solve with internal and external angles of polygons - including finding the number of sides</p> <p>Can combine two ratio's to find a missing part</p>
S U M M E R	<p>Can find the area of basic shapes (Square, rectangle, triangle)</p> <p>Can name the parts of a circle</p> <p>Can find the surface area of a cube</p> <p>Can find the volume of a cube</p> <p>Can construct and interpret bar and line charts</p> <p>Can calculate a mean, mode, median or range from a data set</p>	<p>Can find the area of more complex shapes including trapeziums</p> <p>Can find the area of a compound shape</p> <p>Can find the area and circumference of a circle</p> <p>Can find the surface area of a 2D shape</p> <p>Can find the volume of a 3D shape</p> <p>Can find the surface area and volume of a cylinder</p> <p>Can construct and interpret a pie chart</p> <p>Can compare two distributions displayed in different charts</p> <p>Can find an average from grouped data</p>	<p>Can find missing sides in complex shapes given the area</p> <p>Can find the area of a compound shape involving circles</p> <p>Can use the volume of a shape to answer a functional based question</p> <p>Can find the volume of a compound solid</p> <p>Can find the mean of a data set given information of multiple sets</p> <p>Can find missing values in grouped data</p>