Mathematics – Y7 Assessment Descriptors

	Foundation	Developing	Securing	Exceeding	Excelling
Year 7 Spring term	Confidently and independently be able to… • Use all 4 operations to solve problems with integers. • Identify and name different types of angles. Measure and draw straight lines accurately. • Use letter symbols to represent unknown numbers or variables. Gather like terms in expression with a single variable. • Quantify parts of a whole using fractions. Compare the size of simple fractions using pictures.	Confidently and independently be able to… • Understand the use of brackets in calculations involving two operations. Know that multiplication and division is always done before addition and subtraction. • Classify 3d and 2d shapes in various ways using mathematical properties such as reflective symmetry for 2d shapes. Measure and draw acute and obtuse angles accurately. • Solve simple balance problems. Simplify algebraic expressions by collecting like terms. Substitute integers into basic expressions. Solve one step equations. • Calculate simple fractions of amounts eg, halve, quarter, one fifth etc. Know that fractions of a part must add up to a whole. Add and subtract fractions with the same denominator.	Confidently and independently be able to… • Solve problems using bidmas (not including indices) rules with integers. Calculate simple powers of integers. • Use the properties of 2-D and 3-D shapes. Know and use the angle sum of a triangle, on a straight line and that of angles at a point. Construct ASA, SAS and SSS triangles using a protractor, ruler and a pair of compasses. • Expand single brackets - multiplied by a positive constant. Solve 2 step equations. Gather like terms with 2 or more variables. • Express fractions in their simplest form. Find equivalent fractions (given in numbers). Calculate fractions of amounts. Solve word problems involving fractions.	Confidently and independently be able to… • Insert brackets to make calculations true. Solve problems using bidmas rules with decimals up to 2 decimal places. • Calculate angles in isosceles triangles. Identify and use alternate and corresponding angles. • Write simple expressions from information given in words. Solve equations with unknowns on both sides (no negatives). Form and solve simple equations from information given in diagrams or words. Expand brackets with multipliers which are variables. Solve equations with brackets. • Add or subtract fractions where one denominator is a multiple of the other or by changing both denominators. Simplify the answers. Convert between mixed numbers and improper fractions.	Confidently and independently be able to… • To know the reciprocal of a number. To use index laws. • Find and use interior and exterior angles of a regular polygon. Construct an angle bisector and the bisector of a line. Give detailed reasons when solving multi-step angle problems. • Multiply out double brackets with positive variables. Solve linear inequalities. Solve equations with unknowns on both sides including brackets, negative terms and divisions. Simplify complex expressions with more than one bracket and negative terms & multipliers. • Order fractions with different denominators. Add, subtract, multiply and divide mixed numbers and improper fractions.