Mathematics

	Year 6 Fundamentals of Mathematics
Number **Place value** **+ - X ÷** **Fractions/ Decimals/ Percentages** **Algebra/Ratio/ Proportion**	**Place value** * Rounds any whole number to a required degree of accuracy. * Uses negative numbers in context & calculates intervals across 0 (+ and -). **+ - X ÷** * Uses their knowledge of the order of operations to carry out calculations involving all 4 operations. *Multiplies 4 digit x 2 digit numbers using long multiplication (up to 2 dp). * Divides 4digit x 2 digit numbers using long division (interpreting remainders). **FDP** * +-X÷ fractions with diff. denominators and mixed numbers (simplest form) & recognises equivalent fractions. * X ÷ by 10,100 & 1000 up to 3 d places. * Calculates decimal fraction equivalents for a simple fraction. **Algebra & Ratio/Proportion** * Uses simple formulae and generates and describes linear number sequences. * Compares quantities using ratios.
% achieved	
Shape/space/ measure Measure Time/Money Shape Position/Direction Statistics	**Measurement** * Uses formulae for area and volume of shape and calculates volumes of cubes and cuboids (cm³ & m³). **Time/money** * Solves multiple step word problems using all four operations with both time and money crossing hours and pounds. **Geometry– Shape** * Finds unknown angles in any triangles, quadrilaterals and regular polygons and illustrates and names parts of a circle. **Position & Direction** * Draws and translates simple shapes on the coordinate plane and reflects them in the axes. **Statistics** * Calculates and interprets the mean as an average.
% achieved	
Being a mathematician	**Reasoning** *Describes, convinces & justifies decisions following lines of enquiry & generalising. **Problem solving** *Works systematically & spot patterns by visualising & making conjectures. **Fluency** *Works efficiently and accurately. **Communication** *Makes their mathematical thinking clear to themselves and others. **Reflection** * Uses own and suggested strategies to make corrections and improvements.