Being a Mathematician in Year Six

A year 6 mathematician	
Number •I can use negative numbers in context, and calculate intervals across zero. •I can round any whole number to a required degree of accuracy and solve problems which require answers to be rounded to a specific degree of accuracy. •I can solve problems involving the relative sizes of two quantities where the missing values can be found by using integer multiplication and division facts. •I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination. •I can solve problems involving the calculation of percentages. •I can multiply 1-digit numbers with up to two decimal places by whole numbers. •I can perform mental calculations, including with mixed operations with large numbers. •I can divide numbers up to 4-digits by a 2-digit whole number using formal written methods of long division and interpret remainder in various ways. •I use my knowledge of order of operations to carry out calculations involving all four operations.. •I can associate a fraction with division and calculate decimal fraction equivalents. •I can express missing number problems algebraically. •I can find pairs of numbers that satisfy number sentences involving two unknowns.	Measurement, geometry and statistics •I can recognise, describe and build simple 3D shapes, including making nets. •I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangle, quadrilateral and regular polygons. •I can read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and visa versa, using decimal notation to up to 3 decimal places.. •I can interpret and construct pie charts and line graphs and use these to solve problems.