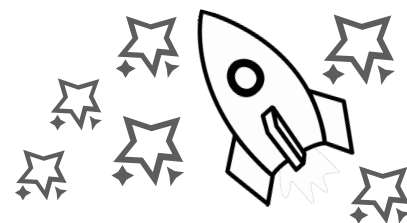# Achievement Statements
Year 6 Mathematics

Foundational Achievement Statements	Power Statement
I can read, write, order and compare numbers up to 10 million and determine the value of each digit	☆
I can add, subtract and use negative numbers in context, and calculate intervals across zero	☆
I can perform mental calculations, including with mixed operations and large numbers	
I can use my knowledge of the order of operations to carry out calculations involving the four operations	☆
I can follow the order of operations in calculations, and where there are brackets do these first e.g. 2+(3x4)-9 =5	
I can identify common factors, common multiples and prime numbers	☆
I can multiply numbers with at least 4-digits by a 2-digit whole number using long multiplication	☆
I can divide numbers up to 4-digits by a 2-digit whole number using long division, and interpret remainders as whole number remainders, fractions, decimals or by rounding as appropriate for the context	☆
I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination	
I can compare and order any fraction, including fractions > 1	☆
I can recognise equivalent ratios and reduce a given ratio to its lowest terms	
I can recall and use equivalences between simple fractions, decimals and percentages including in different contexts	☆
I can multiply and divide numbers up to three decimal places by 10, 100 and 1000 where the answers are up to three decimal places	☆
I can multiply 1-digit numbers with up to two decimal places by whole numbers	
I can calculate the area of parallelograms and triangles	
I can recognise when it is necessary to use the formulae for the area and volume of shapes	☆
I can illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	
I can recognise, describe and build simple 3-D shapes, including making nets	
I can recognise angles and find unknown angles involving angles at a point, on a straight line, in a triangle (180 degrees), in a quadrilateral (360 degrees) and vertically opposite angles	☆
I can describe positions on the full coordinate grid (all four quadrants)	
I can calculate an average	
I can calculate the mode and median	

Conceptual Achievement Statements	Power Statement
I can use estimation to check answers to calculations and determine an appropriate level of accuracy	☆
I can round any number to any given degree of accuracy	☆
I can solve problems which require answers to be rounded to specified degrees of accuracy	☆
I can use formal written methods to solve multistep problems, using all four operations e.g. A two litre bottle of drink is used to fill cups of 150ml, how much will be left?	☆
I can solve problems that involve calculating intervals across zero	☆
I can use written division methods in cases where the answer has up to 2 decimal places	☆
I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	☆
I can multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 x 1/2 = 1/8)	
I can divide proper fractions by whole numbers (e.g. 1/3 divided by 2 =6)	
I can use percentages for comparison and calculate percentages of whole numbers or measures such as 15% of 360	
I can calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g 3/8) and explain how I've done it	☆
I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts	
I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	
I can solve problems involving similar shapes where the scale factor is known or can be found	☆
I can solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate	
I can use, 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 vice versa, including between miles and kilometres using decimal notation to three decimal places	
I can calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed and cubic metres, and extending to other units such as mm cubed and km cubed	
I can convert measurements of distance between miles and kilometres	
I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilateral, and regular polygons	
I can construct, translate and reflect simple shapes on the coordinate plane and reflect them in the axes	☆
I can interpret and construct pie charts and line graphs and use these to solve problems	
I can solve different types of problems using averages	☆
I can generate and extend linear number sequences	☆
I can express missing number problems algebraically	
I can find pairs of numbers that satisfy number sentences involving two unknowns	☆
I can use a simple formula to find an answer to a problem e.g. distance travelled over a time at given speeds, area of a rectangle or triangle	☆
I can make a table showing a range of outcomes from applying a rule to two variables (e.g. multiply and add 2)	

The Progression of Evidence				
This objective has been TAUGHT.	Achieved with SUPPORT.	Achieved INDEPENDENTLY.	Shown in a CROSS-CURRICULAR piece of work.	INDEPENDENTLY APPLIED.