Objective	Child Speak Target
Number Place Value	
Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.	I can work with numbers up to 10 000 000 and know what each digit represents.
Round any whole number to a required degree of accuracy.	I can round a whole number as requested - for example to the nearest 10 or 1000 or 100000.
Use negative numbers in context, and calculate intervals across zero.	I understand and use negative numbers in my work, for example - working out how much is between -7 and +8.
Solve number and practical problems that involve large numbers, rounding and negative numbers.	I can solve number and practical problems involving large numbers, rounding and negative numbers.
Multiplication Division	
Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.	I can multiply 4 digit numbers by a two-digit number (for example 4307 x 34) using the written method of long multiplication.
Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long	I can divide 4 digit numbers by a two-digit number using the written method of long division - and
division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.	tell you the remainder.
Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.	$\it I$ can choose to divide 4 digit numbers by a two-digit number using the written method of short division if this is possible.
Perform mental calculations, including with mixed operations and large numbers.	I can multiply, divide, add and subtract large numbers in my head.
Identify common factors, common multiples and prime numbers.	I identify common factors, common multiples and prime numbers.
Use their knowledge of the order of operations to carry out calculations involving the four operations.	I know that addition, subtraction, multiplication and division should be carried out in a specific order when looking at problems.
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	I can solve addition and subtraction multi-step problems, deciding where to add or subtract.
Solve problems involving addition, subtraction, multiplication and division.	I can solve problems involving addition, subtraction, multiplication and division.
Use estimation to check answers to calculations and determine, in the context of a problem, an	I always estimate my answer before I begin calculating - this helps me to check at the end to make
appropriate degree of accuracy.	sure I am correct.
Fractions	
Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.	I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.
Compare and order fractions, including fractions greater than 1.	I can compare and order fractions, including fractions greater than 1.
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.	I add and subtract fractions with different denominators and mixed numbers.
Multiply simple pairs of proper fractions, writing answer in its simplest form [e.g., $1/4 \times 1/2 = 1/8$ ].	I can multiply fractions such as $1/4 \times 1/2 = 1/8$ .
Divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$ ].	I know how to divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$ ].
Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8].	I can change a fraction into a decimal - for example, I can change 3/8 to 0.375 by dividing 1 by 8 and multiplying by 3.
	I can multiply and divide numbers by 10, 100 and 1000 and know what each digit means up to three decimal places.
Multiply one-digit numbers with up to two decimal places by whole numbers.	I can multiply numbers such as 1.45 by a one digit number - for example 1.45 x 7.
Use written division methods in cases where the answer has up to two decimal places.	I use written division methods in cases where the answer has up to two decimal places.
Solve problems which require answers to be rounded to specified degrees of accuracy.	I can solve problems which include rounding to a required accuracy such as the nearest 10, 100 or 10000.
Recall  and  use  equivalences  between  simple fractions, decimals  and  percentages, including  in  different  and  percentages  a	

contexts.	and 1/2.	
Ratio		
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 about relative sizes (ratio).	
Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.	I can find the percentage of an amount - such as finding 15 per cent of 360.	
Solve problems involving similar shapes where the scale factor is known or can be found.	I can solve similar shape problems.	
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	I can solve problems about unequal sharing - such as 'I need four eggs and for every egg I need three spoonfuls of flour. How much flour do I need?'.	
Alegbra		
Use simple formulae.	I know how to use simple formulae such as $n - 10 = 2$ .	
Generate and describe linear number sequences.	I can create a sequence of numbers that follow a rule.	
Express missing number problems algebraically.	I can use a letter (such as n or x) to show a missing number - such as $10 - x = 5$ .	
Find pairs of numbers that satisfy an equation with two unknowns.	I can find pairs of numbers that satisfy an equation with two unknowns.	
Enumerate possibilities of combinations of two variables.	I can list possible answers to missing numbers such as listing the possible answers of a and b in a $+ 6 = b - 10$ .	
Measurement		
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.	I solve problems about different units of measures with three decimal places.	
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, using decimal notation to up to three decimal places.	I can convert measurements of length, weight, volume and time up to three decimal places in length (for example $0.345kg = 345g$ ).	
Convert between miles and kilometres.	I can convert between miles and kilometres.	
Recognise that shapes with the same areas can have different perimeters and vice versa.	I know that even though shapes may have the same area, the perimeter may be different - or a shapes with the same perimeter may have a different areas.	
Recognise when it is possible to use formulae for area and volume of shapes.	I can use a formulae for area and volume of shapes.	
Calculate the area of parallelograms and triangles.	I can calculate the area of parallelograms and triangles.	
Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3].		
Shape and position		
Draw 2-D shapes using given dimensions and angles.	I accurately draw 2-D shapes using given dimensions and angles.	
Recognise, describe and build simple 3-D shapes, including making nets.	I can recognise, describe and build 3-D shapes, including making nets.	
Compare and classify geometric shapes based on their properties and sizes and find unknown angles	I can classify geometric shapes based on their properties and sizes and find unknown angles in any	
in any triangles, quadrilaterals, and regular polygons.	triangles, quadrilaterals, and regular polygons.	
Illustrate and name parts of circles, including radius, diameter and circumference and know that	I know the parts of circles, including radius, diameter and circumference and know that the diameter	
the diameter is twice the radius.	is twice the radius.	
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	I can work with angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	
Describe positions on the full coordinate grid (all four quadrants).	I can use the four quadrants in a coordinate grid.	
Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	I can draw and translate shapes using coordinates or reflect a shape on the grid.	
Statistics		
Interpret and construct pie charts and line graphs and use these to solve problems.	I can use and construct pie charts and line graphs and use these to solve problems.	
Calculate and interpret the mean as an average.	I can calculate the mean as an average.	