Year 6 Age-Related Expectations

Number and place value			
✓ I can read, write, order and compare numbers up to 10,000,000 and ***determine the value of each digit.***			
✓ ***I can identify the value of each digit in numbers given to 3 decimal places e.g. 28.13 = 28 + ? + 0.03***			
✓ **I can round any whole number to a required degree of accuracy.**			
✓ **I can use negative numbers in context, and calculate intervals across 0.**			
✓ I can solve number and practical problems that involve al of the above			
Calculation			
✓ ***I can perform mental calculations, including with mixed operations and large numbers, using efficient strategies such as manipulating expressions using commutative and distributive properties to simplify the calculation***			
✓ I can use my knowledge of the order of operations to carry out calculations involving the 4 operations.			
✓ **I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.**			
✓ **I can multiply numbers of up to four digits by a two-digit number using a formal written method of long multiplication.**			
✓ **I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of short division, and interpret remainders as whole numbers, fractions, or by rounding, as appropriate for the context.**			
✓ I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole numbers, fractions, or by rounding, as appropriate for the context.			
✓ I can identify common factors, common multiples and prime numbers.			
✓ **I can use estimation to check my answers.**			
✓ ***I can solve multi-step problems involving addition, subtraction, multiplication and division using formal methods.***			
Fractions			
✓ I can compare and order fractions, including fractions >1			
✓ I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination			
✓ 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			
✓ I can divide proper fractions by whole numbers			
✓ I can associate a fraction with division and calculate decimal fraction equivalents			
✓ I can identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places			
✓ I can multiply one-digit numbers with up to two decimal places by whole numbers			
✓ ***I can recall and use equivalences between simple fractions, decimals and percentages in different contexts.***			
✓ ***I can calculate using fractions, decimals or percentages***			
Ratio and Proportion			
✓ 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 the calculation of percentages and use percentages for comparisons.**			
✓ I can solve problems involving similar shapes where the scale factor is known or can be found			
✓ **I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples**			
Algebra			
✓ **I can use simple formulae**			
✓ I can generate and describe linear number sequences			
✓ I can express missing number problems algebraically			
✓ I can find pairs of numbers that satisfy an equation with two unknowns			
✓ I can enumerate possibilities of combinations of two variables.			

Year 6 Age-Related Expectations

Measurement			
✓ **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, using decimal notation to up to 3 decimal places**			
✓ ***I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate***			
✓ I can convert between miles and kilometres			
✓ I can recognise that shapes with the same areas can have different perimeters and vice versa			
✓ ***I can recognise when it is possible to use formulae for area and volume of shapes***			
✓ 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].			
Geometry- Properties of Shape			
✓ I can draw 2-D shapes using given dimensions and angles			
✓ I can recognise, describe and build simple 3-D shapes, including making nets			
✓ **I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons**			
✓ 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 angles where they meet at a point, are on a straight line, or are vertically opposite, and ***find missing angles using mathematical reasoning***			
Geometry- Position and Direction			
✓ I can describe positions on the full coordinate grid (all 4 quadrants)			
✓ **I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes.**			
Statistics			
✓ **I can calculate and interpret the mean as an average.**			
✓ **I can interpret and construct pie charts and line graphs and use these to solve problems.**			