Year 6 Skills

Place Value	1	**I can read**, write, order and compare **numbers up to 10 000 000 and determine the value of each digit.** **I can** round any whole number to a required degree of accuracy.
	2	**I can use negative numbers in context, and calculate intervals across zero. I can** solve number and practical problems that involve all of the above.
Addition, Subtraction, Multiplication and Division	3	**I can multiply** and divide **numbers up to 4 digits by a 2-digit whole number using the formal written methods** and interpret remainders as whole number remainders, fractions, or by rounding.
	4	**I can identify common factors**, common multiples and prime numbers.
	5	**I can use my knowledge, of the order of operations, to carry out calculations involving the four operations.**
	6	**I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.**
Fractions	7	**I can** use common factors to simplify fractions; **use common multiples to express fractions in the same denomination.**
	8	**I can add** and subtract **fractions with different denominators** and mixed numbers, **using the concept of equivalent fractions.**
	9	**I can multiply simple proper fractions and simplify the answer (e.g. ¼ x ½ = ⅛). I can** divide proper fractions by whole numbers (e.g. ⅓ ÷ 2 = ⅙).
	10	**I can** identify the value of each digit to three decimal places and **multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places.**
	11	**I can multiply one-digit numbers with up to two decimal places by whole numbers. I can** use written division methods in cases where the answer has up to two decimal places.
	12	**I can recall** and use **equivalences between simple fractions, decimals and percentages**, including in different contexts.
Ratio and Proportion	13	**I can solve problems involving the calculation of percentages (e.g. of measures) such as 15% of 360** and the use of percentages for comparison.
	14	**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	15	**I can** express missing number problems algebraically. **I can use simple formulae expressed in words.**
	16	**I can** generate and **describe linear number sequences.**
	17	**I can find pairs of numbers that satisfy number sentences involving two unknowns. I can** enumerate all possibilities of combinations of two variables.
Measure	18	**I can** solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. **Convert between miles and km.**
	19	**I can** use, read, write & **convert between standard units of measure, converting length**, **mass, volume** & time **from smaller to larger units, and vice versa, using decimal notation up to 3 d.p.**
	20	**I can recognise that shapes with the same areas can have different perimeters** and vice versa.
	21	**I can calculate the area of parallelograms and triangles. I can r**ecognise when it is possible to use formulae for area and volume of shapes.
	22	**I can calculate,** estimate and compare **volume of cubes and cuboids using standard units, including centimetre cubed (cm^2)** and cubic metres (m^3), and extending to other units.
Geometry	23	**I can draw 2-D shapes using given dimensions and angles. I can** recognise, describe and build simple 3-D shapes, including making nets.
	24	**I can c**ompare and **classify geometric shapes based on their properties** and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
	25	**I can illustrate** and name **parts of circles, including radius, diameter** and circumference and know that the diameter is twice the radius.
	26	**I can recognise angles where they meet at a point**, are on a straight line, or are vertically opposite, **and find missing angles.**
Position and Direction	27	**I can describe positions on the full coordinate grid (all four quadrants).**
	28	**I can draw and translate simple shapes on the coordinate plane,** and reflect them in the axes.
Statistics	29	**I can interpret** and construct pie charts and **line graphs and use these to solve problems.**
	30	**I can calculate** and interpret **the mean as an average.**