YEAR 6 NUMERACY TARGET GRIDS

Number, Place Value and Algebra

- I can enumerate possibilities of combinations of two variables.
- I can find pairs of numbers that satisfy an equation with two unknowns.
- I can express missing number problems algebraically.
- I can generate and describe linear number sequences.
- I can use simple formulae.
- I use negative numbers in context and calculate intervals across zero
- I can round any whole number.
- I know what each digit represents in numbers to 10 000 000.
- I can read , write , order and compare numbers up to 10 000 000.

Addition, Subtraction Multiplication & Division

- I can use estimation to check answers to calculations.
- I can solve problems involving +, -, X and ÷
- I can solve addition and subtraction multi-step problems in contexts, deciding on operations and methods used.
- I can use the knowledge of the order of operations to carry out calculations involving the 4 operations.
- I can identify common factors, common multiples and prime numbers.
- I can perform mental calculations, including mixed operations and large numbers.
- I can interpret remainders as whole number remainders, fractions or rounding
- I can divide numbers up to 4 digits by a two-digit whole number.
- I can multiply multi-digit numbers up to 4 digits by a two-digit whole number.

Ratio and Proportion

- 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 of percentages.
- I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.

Measurements

- I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres(cm^3) and cubic metres (m^3), and extending to other units e.g. mm^3 and km^3
- I can calculate the area of parallelograms and triangles.
- I can recognise when it is possible to use formulae for area and volume of shapes.
- I can recognise that shapes with the same areas can have different perimeters and vice-versa.
- I can covert between miles and kilometres .
- I use, read, write and convert between standard units
- I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.

Fractions, Decimals and percentages

- I can use written division methods in cases where the answer has up to 2 d.p.
- I can multiply 1—digit numbers with 2 d.p by whole numbers
- I can identify the value of each digit in numbers given to 3 decimal places and multiply and divide by 10, 100 & 1000 giving answers to 3 decimal places.
- I can associate a fraction with division and calculate decimal fraction equivalents.
- I can divide proper fractions by whole numbers.
- I can multiply simple pairs of proper fractions, writing the answer in its simplest form.
- I can + and—fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
- I can compare and order fractions, including fractions >1
- I can use common factors to simplify fractions; common multiples to express fractions in the same denomination

Geometry

- I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes..
- I can describe positions on the full coordinate grid.
- I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
- I can illustrate and name parts of circles, including radius, diameter and circumference.
- I can find unknown angles in any triangles, quadrilaterals and regular polygons.
- I can compare and classify geometric shapes based on their properties and sizes.
- I can recognise, describe and build simple 3-D shapes, including making nets.
- I can draw 2-D shapes using given dimensions and angles.

Statistics

- I can calculate and interpret the mean as an average.
- I can construct line graphs.
- I can interpret line graphs.
- I can construct pie charts .
- I can interpret pie charts