Year Six Maths Non-Negotiables

# - Use negative numbers in context & calculate intervals across zero.

# - Read, write & compare numbers up to 10, 000, 000.

# - Identify common factors, common multiples & prime numbers.

# - Recognise place value of any -digit number.

# - Round any whole number to a required degree of accuracy.

# - Use knowledge of order of operations to carry out calculations involving 4 operations.

# - Use estimation to check answers.

# Multiply:

# - 4-digit by 2-digit

# Divide:

# - 4-digit by 2-digit (both short & long methods).

# - Perform mental calculations including mixed operations.

# - Multiply one- digit numbers with up to 2dp by whole numbers.

# - Divide numbers with up to 2dp.

# - Add & subtract fractions with different denominators & mixed numbers.

# - Multiply simple pairs of proper fractions, writing the answer in the simplest form.

# - Use common factors to simplify fractions.

# - Compare & order fractions including >1.

# - Divide proper fractions by whole nos.

# - Calculate % of whole number.

# - Solve problems including calculating the percentage or using them for comparison.

# - Solve problems involving the calculation & conversions of measure.

# - Use, read, write & convert between standard units including up to 3dp.

# - Convert between kilometres & miles.

# - Recognise when it’s possible to use formulae for area & volume.

# - Recognise the shapes with the same perimeter can have different areas.

# - Calculate the area of triangles & parallelograms.

# - Calculate, estimate & compare volume of cubes & cuboids.

# - Draw 2D shapes using given dimensions.

# - Recognise, describe & build simple 3D shapes, including nets.

# - Compare & classify geometric shapes based on their properties.

# - Find unknown angles in triangles, quadrilaterals & regular polygons.

# - Illustrate & name parts of a circle, including radius, diameter & circumference.

# - Recognise angles where they meet at a point, on a straight line or are vertically opposite.

# - Find missing angles.

# - Describe positions on the full coordinate grid.

# - Draw & translate simple shapes on the grid & reflect them in the axes.

# - Interpret & construct pie charts & line graphs.

# - Calculate & interpret the mean as an average.

# - Use simple formulae

# - Generate & describe linear number sequences.

# - Express missing number problems algebraically.

# - Find pairs of numbers that satisfy an equation with two unknowns.

# - Enumerate possibilities of combinations of two variables.

# - Solve problems involving the relative sizes of two quantities with missing values.

# - Solve problems involving similar shapes where the scale factor is known or can be found.

# - Solve problems involving unequal sharing & grouping using knowledge of fractions & multiples.