At the end of year six I will know and remember

Number and Place Value

I can multiply and divide by 10, 100 and 1000.

Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and nonstandard partitioning.

Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.

Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.

Addition, Subtraction, Multiplication and Division

Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).

Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.

Solve problems involving ratio relationships.

Solve problems with 2 unknowns.

Fractions

Recognise when fractions can be simplified, and use common factors to simplify fractions.

Express fractions in a common denomination and use this to compare fractions that are similar in value.

Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy

Geometry – Shape

Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.

Methods

Addition – formal column addition

Subtraction – formal column subtraction

Multiplication - short multiplication and long multiplication

Division - short division and long division

Number Facts

Use and apply my knowledge of times tables up to 12 x 12.