Maths
Spring 1 and 2
Year 6

Unit 7. Decimals (9 Lessons)

Number - fractions (including decimals and percentages)

associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]

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

multiply one-digit numbers with up to two decimal places by whole numbers

use written division methods in cases where the answer has up to two decimal places

solve problems which require answers to be rounded to specified degrees of accuracy

Unit 8. Percentages (9 Lessons)

Number - fractions (including decimals and percentages)

compare and order fractions, including fractions > 1

multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1/4 \times 1/2 = 1/8$]

multiply one-digit numbers with up to two decimal places by whole numbers

solve problems which require answers to be rounded to specified degrees of accuracy

recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

Ratio and proportion

solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison

Unit 9. Algebra (11 Lessons)

Maths
Spring 1 and 2
Year 6

Algebra

use simple formulae

generate and 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

Unit 10. Measure - imperial and metric measures (5 Lessons)

Measurement

solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate

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 three decimal places

convert between miles and kilometres

Unit 11. Measure - perimeter, area and volume (11 Lessons)

Measurement

recognise that shapes with the same areas can have different perimeters and vice versa

recognise when it is possible to use formulae for area and volume of shapes

calculate the area of parallelograms and triangles

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 [for example, mm^3 and km^3]

Maths
Spring 1 and 2
Year 6

<u>Unit 12. Ratio and proportion</u> (9 Lessons)

Ratio and proportion

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

solve problems involving similar shapes where the scale factor is known or can be found

solve problems involving unequal sharing and grouping using knowledge of fractions and multiples