

Maths

Summer 1 and 2

Year 6

Unit 13. Geometry - properties of shapes (12 Lessons)

Geometry - properties of shapes

identify 3-D shapes, including cubes and other cuboids, from 2-D representations

draw 2-D shapes using given dimensions and angles

recognise, describe and build simple 3-D shapes, including making nets

compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons

illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

Unit 14. Problem solving (14 Lessons)

Number - addition and subtraction

solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Number - number and place value

solve number and practical problems that involve all of the above

Number - addition, subtraction, multiplication and division

use their knowledge of the order of operations to carry out calculations involving the four operations

solve problems involving addition, subtraction, multiplication and division

use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy

Number - fractions (including decimals and percentages)

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

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 unequal sharing and grouping using knowledge of fractions and multiples

Measurement

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

Geometry - properties of shapes

compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons

recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

Geometry - position and direction

describe positions on the full coordinate grid (all four quadrants)

Unit 15. Statistics (10 Lessons)

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

Statistics

interpret and construct pie charts and line graphs and use these to solve problems

calculate and interpret the mean as an average

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