



FERNDALE PRIMARY
SCHOOL

Stage 6 -Topic Programme of Study Objectives

Comment

Measurement - Length, Mass, Capacity, Temperature

Use, read, write and convert between standard and non-standard units converting measurement of length from a smaller unit of measurement to a larger unit and vice versa, using decimal notation up to three decimal places e.g. convert between miles and km)

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

Recognise when it is possible to use formulae for area of shapes

Calculate the area of parallelograms and triangles

Use, read, write and convert between standard and non-standard units converting mass and weight from a smaller unit of measurement to a larger unit and vice versa, using decimal notation up to three decimal places e.g. g to kg, kg to g and g to ounces, kg to stones, stones to kg)

Calculate, estimate and compare volume of cubes and cuboids using standard units cm^3 , m^3 , mm^3 and km^3

Recognise when it is possible to use formulae to calculate the volume of shapes

Calculate differences in temperatures through 0°C

Measurement - Time

Introduce compound units for speed e.g. mph, kmph

Measurement – Money

Solve multi step worded problems involving money using some or all of the four operations

Geometry – Shape

Draw 2D shapes using given dimensions and angles

Compare and classify geometric shapes based on their properties and sizes

Recognise, describe and build simple 3D shapes including making nets

Illustrate and name parts of circles including radius, diameter and circumference. Know that the diameter of a circle is twice the radius. These relationships could be expressed algebraically e.g. $d = 2r$, $a = 180 - (b+c)$

Geometry – Co-ordinates / Translation

Describe positions on the four quadrant co-ordinates grid

Draw and translate simple shapes on the co-ordinate plane and reflect them in the axes

Geometry – Angles

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

Find missing angles on a straight line

Find unknown angles in any triangles, quadrilaterals and regular polygons

Statistics

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

Calculate and interpret the mean as an average