



Mathematics Medium Term Plan

Year 4 Spring Term Unit 2 Length and Perimeter

R2P: Check 3AS-1, Check 3AS-2, Check 3AS-3

NC:

Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m.

Convert between different units of measure (eg. km to m)

Focus: Length and Perimeter

Time: 2 weeks

Concept Sequence

Measure in km and m – use bar models and part whole models.

Equivalent lengths (km/m) - multiply and divide by 1000 to convert km and m. Use bar models.

Perimeter on a grid – rectilinear shapes. Count squares. Label lengths of all sides and mark off when counting. Use cm paper to draw shapes.

Perimeter of rectangles – start with grids, use side lengths rather than counting squares, then progress to no grid with all sides represented. Finally, when given only one length and width, explore different approaches – add all sides, add length and width and double...

Use inverse to calculate missing lengths. Investigate possible perimeter of squares and rectangles.

Perimeter of rectilinear shapes – with and without grids, include opportunities to measure. Label each side and mark off when counting.

Find missing lengths in rectilinear shapes - use addition and subtraction to calculate missing sides (part whole models).

Calculate the perimeter of rectilinear shapes – calculate perimeter where need to find missing lengths first.

Perimeter of regular polygons – introduce regular polygon for first time (flat shape, straight sides, all sides equal in length). Make links with repeated addition/multiplication. Use division to find one side when perimeter given.

Perimeter of polygons – introduce term 'irregular' (either lengths, angles or both not all equal). Include examples where lengths equal but angles not. Use number bonds to aid counting sides. Use symmetry and other properties of shapes to aid shapes that are partially labelled. Mark sides to avoid errors.

Times Tables 3NF-2, 4NF-1

7x table – recall multiples, division, missing numbers, fractions

Count in 11s

Planning Links

White Rose, Power Maths, Maths No Problem/Aspire Maths

White Rose Scheme of Work:

<https://assets.whiterosemaths.com/new-schemes/Year%204%20Spring%20Block%20%20SOL%20Length%20and%20perimeter.pdf>

New Vocabulary

Km, Unit, standard unit, metric unit

Breadth

Regular, irregular, polygon

Existing Vocabulary

Measure, measurement, perimeter
cm, m, mm

measuring scale

estimate

width, length, height, depth,

edge, ruler, trundle wheel

metre stick, tape measure

Multiply, multiplied by

Inverse

Resources

Counting Stick, cm squared paper, ruler, metre stick, trundle wheel, tape measures

Power Maths/White Rose/Maths No Problem/Aspire

Gordons Maths Games, Mathletics, TTRockstars

BBC Super Movers

<https://www.bbc.co.uk/teach/supermovers/ks2-collection/zr4ky9q>

