

Angles in parallel lines & polygons

Small Steps

- Understand and use basic angles rules and notation R
- Investigate angles between parallel lines and the transversal
- Identify and calculate with alternate and corresponding angles
- Identify and calculate with co-interior, alternate and corresponding angles
- Solve complex problems with parallel line angles
- Constructions triangles and special quadrilaterals R
- Investigate the properties of special quadrilaterals
- Identify and calculate with sides and angles in special quadrilaterals

Angles in parallel lines & polygons

Small Steps

Understand and use the properties of diagonals of quadrilaterals

H

Understand and use the sum of exterior angles of any polygon

Calculate and use the sum of the interior angles in any polygon

Calculate missing interior angles in regular polygons

Prove simple geometric facts

H

Construct an angle bisector

H

Construct a perpendicular bisector of a line segment

H

H denotes Higher Tier GCSE content

R denotes 'review step' – content should have been covered at KS3

Area of Trapezia and Circles

Small Steps

- ▶ Calculate the area of triangles, rectangles and parallelograms R
- ▶ Calculate the area of a trapezium
- ▶ Calculate the perimeter and area of compound shapes (1)
- ▶ Investigate the area of a circle
- ▶ Calculate the area of a circle and parts of a circle without a calculator
- ▶ Calculate the area of a circle and parts of a circle with a calculator
- ▶ Calculate the perimeter and area of compound shapes (2)

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Line symmetry and reflection

Small Steps

- ▶ Recognise line symmetry
- ▶ Reflect a shape in a horizontal or vertical line 1 (shapes touching the line)
- ▶ Reflect a shape in a horizontal or vertical line 2 (shapes not touching the line)
- ▶ Reflect a shape in a diagonal line 1 (shapes touching the line)
- ▶ Reflect a shape in a diagonal line 2 (shapes not touching the line)

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