White Rose Maths

Deductions

Small Steps

- Angles in parallel lines **R**
- Solving angles problems (using chains of reasoning)
- Angles problems with algebra
- Conjectures with angles
- Conjectures with shapes
- **Link constructions and geometrical reasoning** **H**

H denotes higher strand and not necessarily content for Higher Tier GCSE

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

©White Rose Maths

Rotation and translation

Small Steps

- Identify the order of rotational symmetry of a shape
- Compare and contrast rotational symmetry with lines of symmetry
- Rotate a shape about a point on a shape
- Rotate a shape about a point not on a shape
- Translate points and shapes by a given vector
- Compare rotation and reflection of shapes
- **Find the result of a series of transformations** ⒣

⒣ denotes Higher Tier GCSE content

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

Pythagoras' Theorem

Small Steps

- Squares and square roots   **(R)**
- Identify the hypotenuse of a right-angled triangle
- Determine whether a triangle is right-angled
- Calculate the hypotenuse of a right-angled triangle
- Calculate missing sides in right-angled triangles
- Use Pythagoras theorem on coordinate axes
- Explore proofs of Pythagoras' theorem
- **Use Pythagoras' theorem in 3-D shapes**   **(H)**

> **(H)** denotes Higher Tier GCSE content
>
> **(R)** denotes 'review step' – content should have been covered earlier in KS3