

GCSE UNIT SUMMARY: UNIT 10: Transformations

Unit Description	Taught	Revision Priority
Identify congruent shapes by eye;		
Understand that rotations are specified by a centre, an angle and a direction of rotation;		
Find the centre of rotation, angle and direction of rotation and describe rotations fully using the angle, direction of turn, and centre;		
Rotate and draw the position of a shape after rotation about the origin or any other point including rotations on a coordinate grid;		
Identify correct rotations from a choice of diagrams;		
Understand that translations are specified by a distance and direction using a vector;		
Translate a given shape by a vector;		
Use column vectors to describe and transform 2D shapes using single translations on a coordinate grid;		
Understand that distances and angles are preserved under rotations and translations, so that any figure is congruent under either of these transformations;		
Understand that reflections are specified by a mirror line;		
Identify correct reflections from a choice of diagrams;		
Identify the equation of a line of symmetry;		
Transform 2D shapes using single reflections (including those not on coordinate grids) with vertical, horizontal and diagonal mirror lines;		
Describe reflections on a coordinate grid;		
Scale a shape on a grid (without a centre specified);		
Understand that an enlargement is specified by a centre and a scale factor;		
Enlarge a given shape using (0, 0) as the centre of enlargement, and enlarge shapes with a centre other than (0, 0);		
Find the centre of enlargement by drawing;		
Describe and transform 2D shapes using enlargements by: a positive integer scale factor; a fractional scale factor;		
Identify the scale factor of an enlargement of a shape as the ratio of the lengths of two corresponding sides, simple integer scale factors, or simple fractions;		
Understand that distances and angles are preserved under reflections, so that any figure is congruent under this transformation;		
Understand that similar shapes are enlargements of each other and angles are preserved – define similar in this unit;		
Describe and transform 2D shapes using combined rotations, reflections, translations, or enlargements.		