

Stage 10

Mathematical Movement 1

KEYWORDS

WHAT DO WE ALREADY *know?*

- Use the centre and scale factor to carry out an enlargement of a 2D shape with a positive integer scale factor
- Use the concept of scaling in diagrams
- Carry out reflection, rotations and translations of 2D shapes

THE
BIG
PICTURE

- Identify, describe and construct similar shapes by considering enlargement (including fractional scale factors)
- Make links between similarity and scale factors
- Describe the changes and invariance achieved by combinations of rotations, reflections and translations

- Perpendicular bisector
- Scale factor
- Similar
- Congruent say *con grew ant*
- Invariance-"remaining always the same, not varying or changing," 1795
- Transformation
- Rotation
- Reflection
- Translation-early 14c., "to remove from one place to another"
- Enlargement

Mathematical Movement 1 - Targets

Mathematical Movement 1 - Targets	Before Topic	After Topic	Teacher Mark
Use the centre and scale factor to carry out an enlargement of a 2D shape with a fractional scale factor			
Find the scale factor of an enlargement with fractional scale factor			
Find the centre of an enlargement with fractional scale factor			
Solve problems involving similarity			
Perform a sequence of transformations on a 2D shape			
Find and describe a single transformation given two congruent 2D shapes			