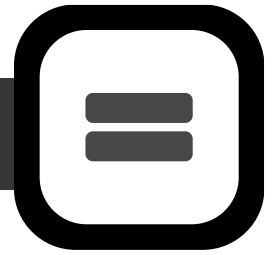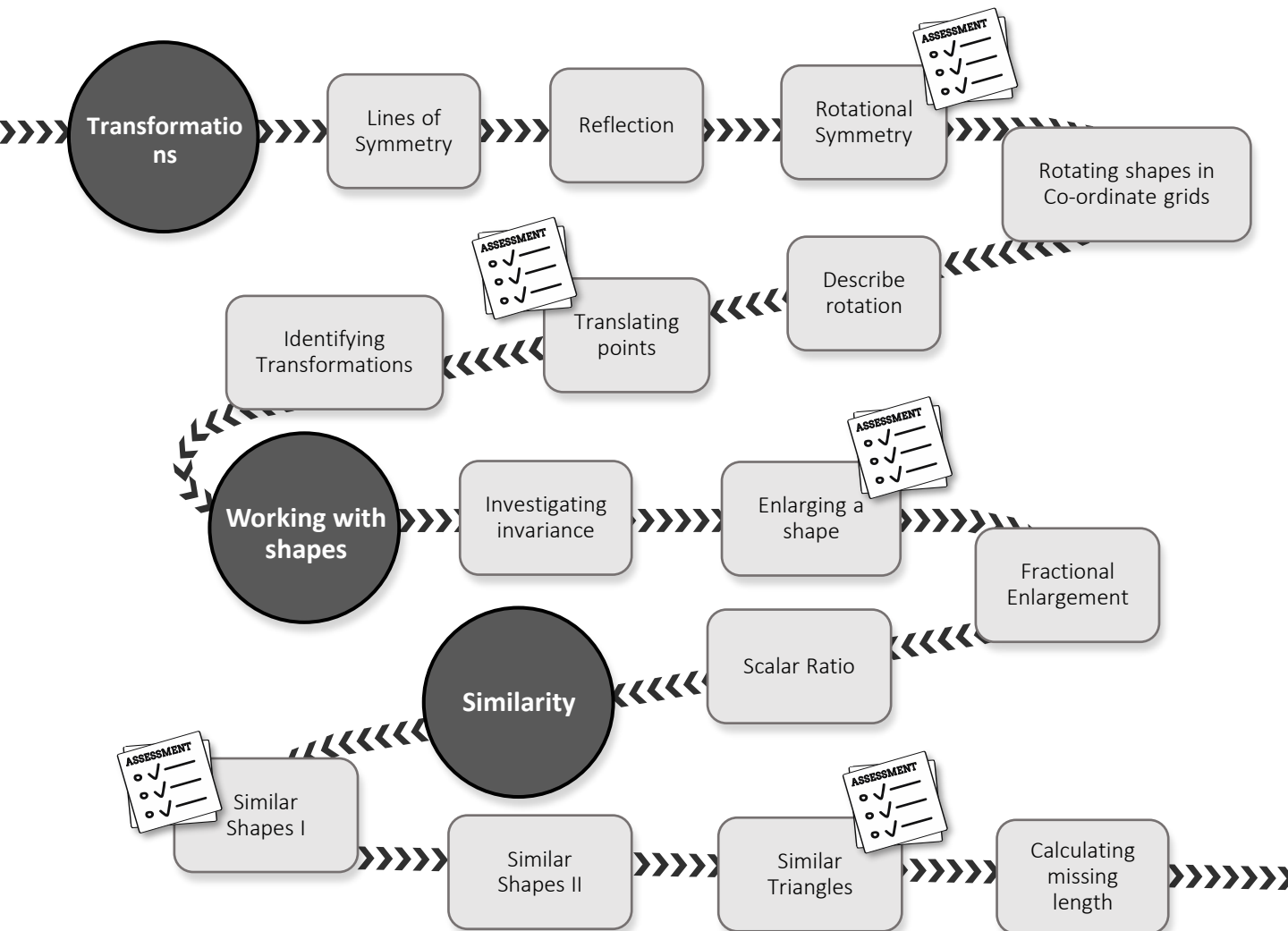# LEARNING JOURNEY | MATHS

Transformations

Year 9 Summer Half Term 1

Transformations are an important concept in mathematics that describe the changes in size, shape, and position of objects in space.

Transformations are used in careers such as architecture, engineering, and graphic design, and studying transformations in mathematics will help you to develop your spatial reasoning skills, which are needed in fields such as science, technology, engineering. This half term's work will also help you to understand later geometrical concepts, such as congruence.

Transformations ›› Lines of Symmetry ›› Reflection ›› Rotational Symmetry ›› Rotating shapes in Co-ordinate grids

‹‹ Identifying Transformations ‹‹ Translating points ‹‹ Describe rotation

Working with shapes ›› Investigating invariance ›› Enlarging a shape ›› Fractional Enlargement

‹‹ Scalar Ratio

Similarity ‹‹ Similar Shapes I ›› Similar Shapes II ›› Similar Triangles ›› Calculating missing length

ASSESSMENT

TUDOR HABITS AND VALUES: This half term you will develop your problem-solving skills and creativity. There will be an emphasis on **process over product** which will also help you to become more resilient and open to mistakes.

VOCABULARY
- ❑ **Object**
- ❑ **Image**
- ❑ **Congruent**
- ❑ **Invariant**
- ❑ **Vector**