

And perform translations, reflections and rotations of shapes, using dynamic...

describe and perform translations, reflections and rotations of shapes, using dynamic geometric software where appropriate; recognise what changes and what remains the same, and identify any symmetries

Learning intention

- describe and perform translations, reflections and rotations of shapes, using dynamic geometric software where appropriate; recognise what changes and...

Teach and model

- understanding and explaining that translations, rotations and reflections can change the position and orientation of a shape but not the shape or size
- using pattern blocks and paper tracing around a shape and conducting a series of a one-step transformations; continuing to trace each resulting image, then copying the...
- demonstrating how different combinations of transformations can produce the same resulting image

Check understanding

- Explain the main idea in and perform translations, reflections and rotations of shapes, using dynamic... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.