

The conditions for congruence and similarity of triangles and explain...

identify the conditions for congruence and similarity of triangles and explain the conditions for other sets of common shapes to be congruent or similar, including those formed by transformations

Learning intention

- identify the conditions for congruence and similarity of triangles and explain the conditions for other sets of common shapes to be congruent or similar, including those...

Teach and model

- developing an understanding of what it means for shapes to be congruent or similar
- using the enlargement transformation and digital tools to develop sets of similar shapes
- investigating sufficient conditions to establish that 2 triangles are congruent

Check understanding

- Explain the main idea in the conditions for congruence and similarity of triangles and explain... 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.