

Solve practical problems involving the perimeter and area of regular...

solve practical problems involving the perimeter and area of regular and irregular shapes using appropriate metric units

Learning intention

- solve practical problems involving the perimeter and area of regular and irregular shapes using appropriate metric units

Teach and model

- investigating problem situations involving perimeter; for example, "How many metres of fencing are required around a paddock, or around a festival event?"
- using efficient ways to calculate the perimeters of rectangles, such as adding the length and width together and doubling the result
- solving measurement problems, such as "How much carpet would be needed to cover the entire floor of the classroom", using square metre templates to directly measure...

Check understanding

- Explain the main idea in solve practical problems involving the perimeter and area of regular... 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.