

Convert between common metric units of length, mass and capacity...

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Learning intention

- convert between common metric units of length, mass and capacity; choose and use decimal representations of metric measurements relevant to the context of a...

Teach and model

- recognising the significance of the prefixes in units of measurement
- identifying and using the correct operations when converting between units including millimetres, centimetres, metres, kilometres, milligrams, grams, kilograms, tonnes...
- recognising the equivalence of measurements, such as 1.25 metres is the same as 125 centimetres

Check understanding

- Explain the main idea in convert between common metric units of length, mass and capacity... 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.