

Repeating patterns

recognise, continue and create repeating patterns with numbers, symbols, shapes and objects, identifying the repeating unit

Learning intention

- recognise, continue and create repeating patterns with numbers, symbols, shapes and objects, identifying the repeating unit

Teach and model

- interpreting a repeating pattern sequence created by someone else, noticing and describing the repeating part of the pattern and explaining how they know what comes...
- generalising a repeating pattern by identifying the unit of repeat and representing the elements using numbers, letters or symbols; for example, representing...
- recognising within the sequencing of natural numbers that 0 - 9 digits are repeated both in and between the decades and using this pattern to continue the sequence and name...

Check understanding

- Explain the main idea in repeating patterns 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.