

# Recognise, describe and create additive patterns that increase or decrease...

recognise, describe and create additive patterns that increase or decrease by a constant amount, using numbers, shapes and objects, and identify missing elements in the pattern

## Learning intention

- recognise, describe and create additive patterns that increase or decrease by a constant amount, using numbers, shapes and objects, and identify missing elements in...

## Teach and model

- creating a pattern sequence with materials, writing the associated number sequence, and then describing the sequence so someone else can replicate it with different...
- recognising patterns in the built environment to locate additive pattern sequences; for example, "How many windows in one train carriage, 2 train carriages, 3 train carriages..."
- recognising the constant term being added or subtracted in an additive pattern and using it to identify missing elements in the sequence

## Check understanding

- Explain the main idea in recognise, describe and create additive patterns that increase or decrease... 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.