

# Repeating patterns and their rule (shape and colour)

MODULE 10 · ALGEBRA — PATTERNS, RULES AND NUMBER SENTENCES ALGEBRA

## ★ STRETCH PROBLEMS

- 1 Cara is making a border for the class library display. She sticks up shapes in a repeating pattern: star, moon, moon, star, moon, moon, star, moon, moon, star, moon, moon, \_\_\_\_ . What shape comes next, and what is the repeating unit?
- 2 Aoife is threading beads onto a bracelet at home in a repeating pattern: red, red, yellow, red, red, yellow, red, red, yellow, red, red. What colour bead comes next, and what is the repeating unit?
- 3 Aoife is making a border for the class noticeboard using paper shapes. So far she has stuck up circle, square, circle, square, circle. What shape comes next, and what is the repeating unit?
- 4 Cara threads beads on a string for the school craft table in this pattern: green, green, blue, blue, green, green, blue, blue, green, green, blue, blue, green, \_\_\_\_ . Which colour comes next, and what is the repeating unit?
- 5 For the Cumann na mBunscol blitz, 4th class make a bunting line for the county grounds using a repeating shape pattern: circle, square, circle, square, circle, square, \_\_\_\_ . What shape comes next, and what is the repeating unit?

## ● INVESTIGATE

### What lands on the 100th spot?

Invent a repeating pattern whose unit uses 3 or 4 shapes or colours. Without drawing the whole line, work out what lands on position **20**, **50** and **100**. Explain the shortcut you used.

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