

Repeating patterns and their rule (shape and colour)

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

★ STRETCH PROBLEMS

- On the school nature walk, Cian threads a bracelet using beads in a repeating pattern: green, green, blue, blue, green, green, blue, blue, green, green, blue. What colour bead comes next, and what is the repeating unit?
- 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?
- 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?
- Aoife is threading beads onto a string for the school craft table. She makes a repeating pattern: red, blue, red, blue, red, blue, red. What colour bead comes next, and what is the repeating unit of the pattern?
- 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.



x y



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x y

