Grade 1 Mathematics: Algebra and Coding

Free sample lesson

Ontario curriculum: Mathematics (2020), Strand C: Algebra and Coding. 13 days.

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This is Lesson 1 of 10 from the full unit, exactly as it appears in the Teacher Guide, followed by the student worksheet. The full unit is at unitplans.ca.

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Lesson 1: Patterns: what stays the same?

1 day · about 40 minutes · C1.1

> **Learning goal**
>
> - We are learning to find what repeats in a pattern, such as colour, shape or size.

> **Success criteria**
>
> - I can say what repeats in a pattern.
> - I can tell if colour, shape or size is used.

Materials

- Coloured cubes
- Pattern blocks
- Chart paper

What students do with their hands

Students build patterns with coloured cubes and pattern blocks, then walk around the classroom to point to patterns they find on clothes, floors and windows.

Minds On (8 min)

1. Hold up a striped shirt or a tile picture. Ask: "What do you see over and over?"
2. Students point to patterns in the room.

Action (25 min)

1. Build red, blue, red, blue with cubes. Say what repeats.
2. Change one thing at a time: colour, then shape, then size.

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3. Partners build a pattern and hide one piece for the other to find.
4. Complete the worksheet.

Consolidation (7 min)

1. Share one pattern from the room or from the worksheet.
2. Exit: "What repeats in red, blue, red, blue?"

Questions to ask

- What do you see over and over?
- Is it colour, shape or size that changes?

Watch for

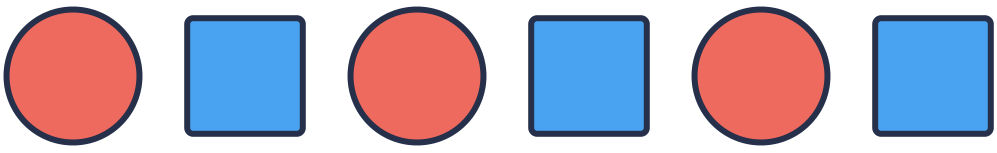
- Some students only talk about the last piece. Ask them to find the part that repeats.

Differentiation

Support	Extend
Use two colours of the same shape.	Make a pattern where two things change, such as colour and size.

Answer key: What repeats?

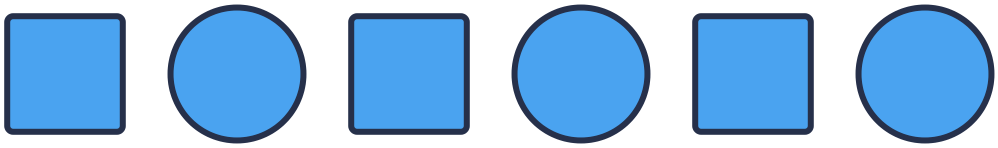
1. What comes next?



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> **Answer:** blue square.

2. What comes next?



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> **Answer:** blue circle.

3. What comes next?



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> **Answer:** small yellow star.

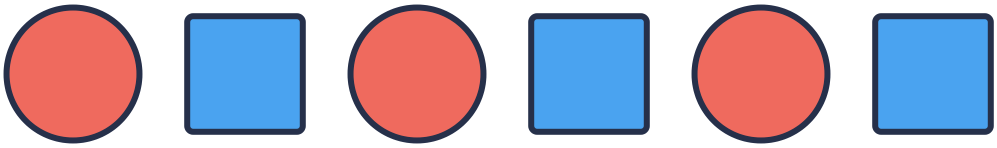
4. Which fruit comes next?



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> **Answer:** banana.

5. Circle the part that repeats.



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> **Answer:** Circle one red circle and one blue square.

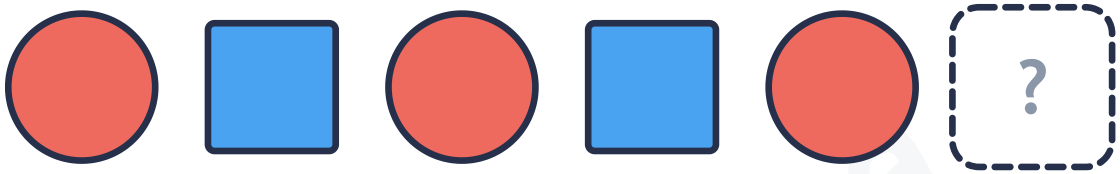
Student worksheet: What repeats?

Success criteria

- I can say what repeats in a pattern.
- I can tell if colour, shape or size is used.

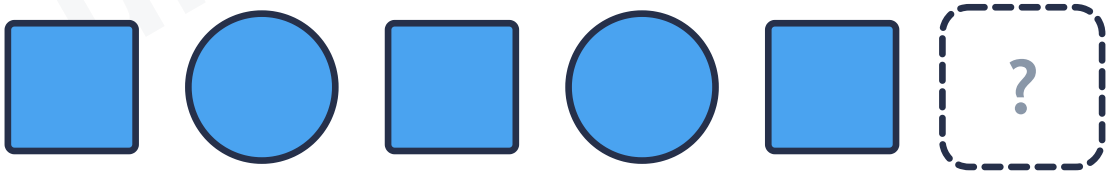
Look at the pattern. Draw what comes next.

1 What comes next?



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2 What comes next?



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3 What comes next?



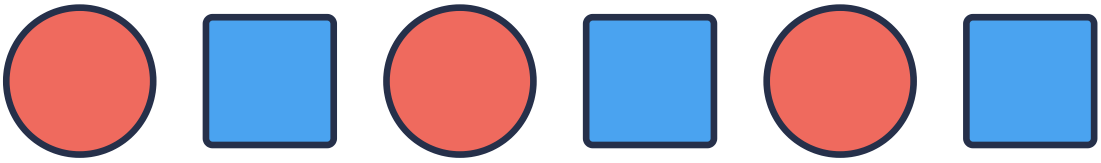
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4 Which fruit comes next?



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5 Circle the part that repeats.



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