

Sliding shapes (translation) on squared paper

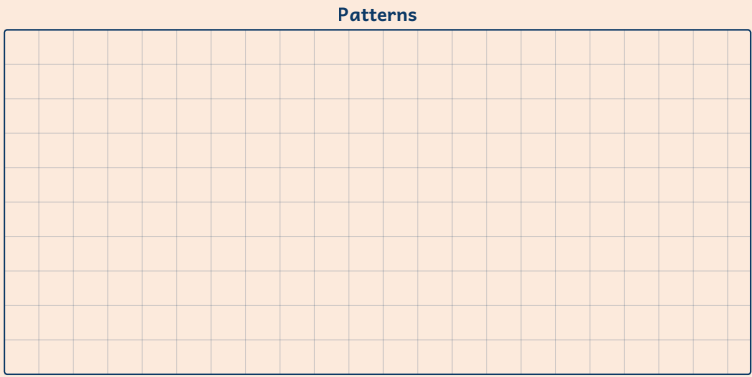
MODULE 8 · SYMMETRY, LOCATION AND TRANSFORMATION SHAPE & SPACE

HOW TO ANSWER TODAY

- **Transformations.** Slide without turning → translation. Flip (mirror) → reflection. Turn → rotation.
Triangle slid left → translation · Letter flipped → reflection

TRY IT ON THE LINE

Continue and describe each pattern.



1. Draw the next three shapes in the pattern.
2. Describe the rule of the pattern in words.
3. Make your own repeating pattern and swap to read a friend's.

PRACTICE

- 1 Cian is drawing a treasure map of the corner shop on grid paper for his copybook. He marks the gumball machine **3** squares across and **8** squares up from the corner of the grid. Write the position of the gumball machine as (across, up).
On a grid, the kite is 3 squares across and 8 squares up. Write its position as (across, up).
- 2 Aoife paints a shape on one half of the wall-ball court in the yard, then paints a matching shape on the other half so that the shape flips across the vertical line through its centre. Name the transformation she has used. Choose from translation, reflection or rotation.

CHALLENGE

- 1 In 3rd class, Oisín draws a grid map of the school garden to show where each plant pot is for a soil investigation. The pot of cress is **8** squares across and **4** squares up from the corner of the grid. Write the pot's position as (across, up).
On a grid, the boat is 8 squares across and 4 squares up. Write its position as (across, up).
- 2 Ms Ní Bhriain draws a grid on the whiteboard to show where each act sits in the school music recital programme. The choir's act is marked **10** squares across and **4** squares up from the corner. Write its position as (across, up).