

Varied Fluency

Step 5: Patterns with 2D and 3D Shapes

National Curriculum Objectives:

Mathematics Year 1: (1G1a) [Recognise and name common 2-D shapes \[for example, rectangles \(including squares\), circles and triangles\]](#)

Mathematics Year 1: (1G1b) [Recognise and name common 3-D shapes \[for example, cuboids \(including cubes\), pyramids and spheres\]](#)

Differentiation:

Developing Questions displaying simple patterns using 2 shapes. Each question using all 2D or 3D shapes. Includes squares, circles, triangles, rectangles, cubes, spheres, cuboids and triangular-based pyramids.

Expected Questions displaying patterns using 3 or 4 shapes with different orientations. Each question using all 2D or 3D shapes. Includes squares, circles, triangles, rectangles, cubes, spheres, cuboids, square and triangular-based pyramids, cylinders and cones.

Greater Depth Questions displaying patterns of increasing complexity using up to 4 shapes, with different orientations and some mixed dimensions. Includes squares, circles, triangles, rectangles, cubes, cuboids, spheres, cones and pyramids and prisms with a variety of shaped bases.

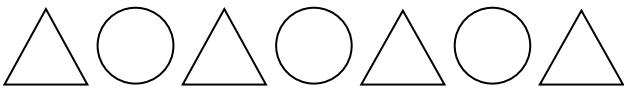
More [Year 1 Shape](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Patterns with 2D and 3D Shapes

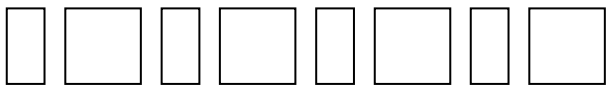
Patterns with 2D and 3D Shapes

1a. Colour the shapes to create a pattern.



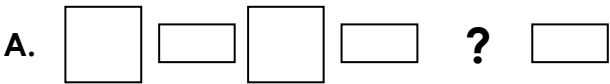
VF

1b. Colour the shapes to create a pattern.



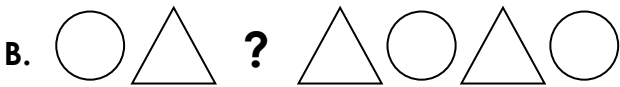
VF

2a. Draw the missing shape in these patterns.



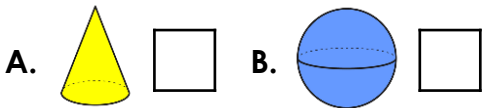
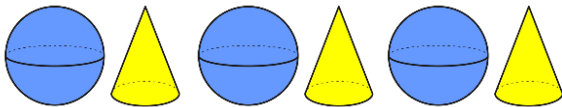
VF

2b. Draw the missing shape in these patterns.



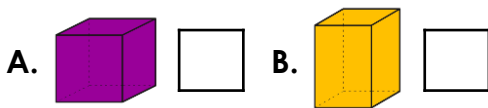
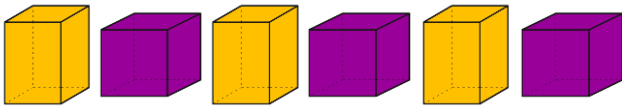
VF

3a. Tick the shape that continues the pattern.



VF

3b. Tick the shape that continues the pattern.



VF

4a. True or false?



The next shape in my pattern will be a sphere.

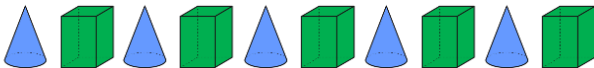


VF

4b. True or false?



The next shape in my pattern will be a cuboid.

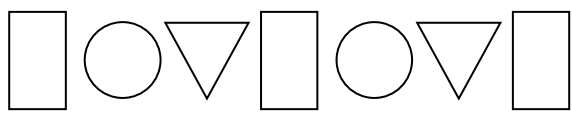


VF

Patterns with 2D and 3D Shapes

Patterns with 2D and 3D Shapes

5a. Colour the shapes to create a pattern.



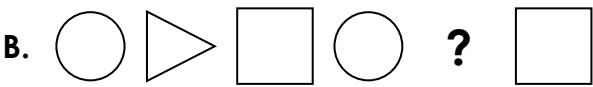
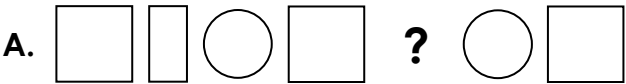
VF

5b. Colour the shapes to create a pattern.



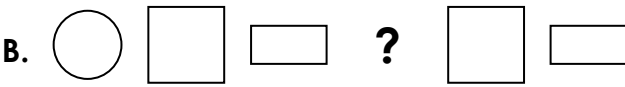
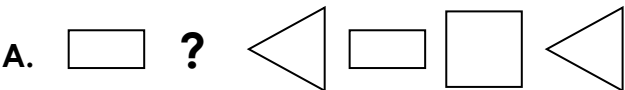
VF

6a. Draw the missing shape in these patterns.



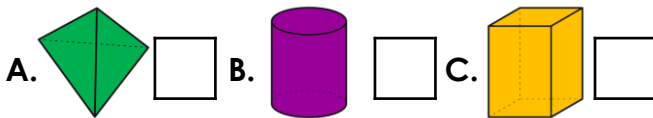
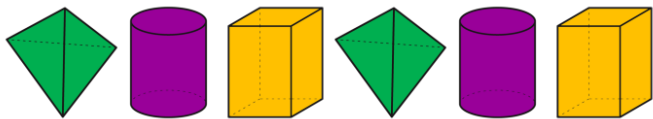
VF

6b. Draw the missing shape in these patterns.



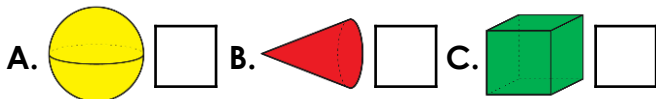
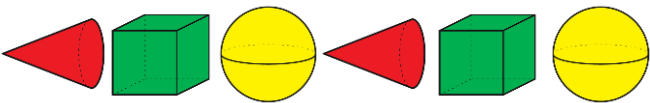
VF

7a. Tick the shape that continues the pattern.



VF

7b. Tick the shape that continues the pattern.



VF

8a. True or false?



The next shape in my pattern will be a cylinder.

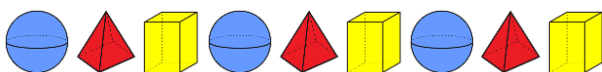


VF

8b. True or false?



The next shape in my pattern will be a sphere.



VF

Patterns with 2D and 3D Shapes

Patterns with 2D and 3D Shapes

9a. Colour the shapes to create a pattern.



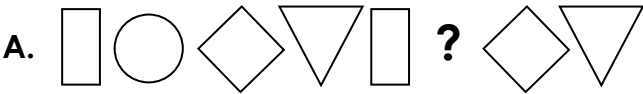
VF

9b. Colour the shapes to create a pattern.



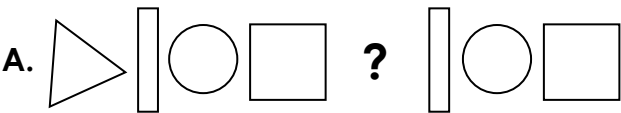
VF

10a. Draw the missing shape in these patterns.



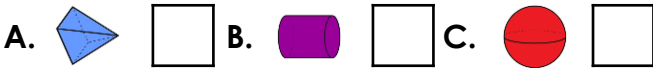
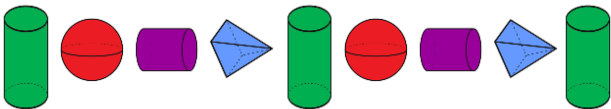
VF

10b. Draw the missing shape in these patterns.



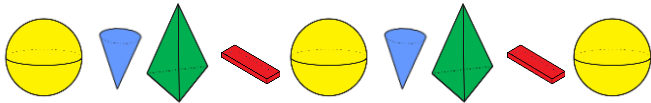
VF

11a. Tick the shape that continues the pattern.



VF

11b. Tick the shape that continues the pattern.



VF

12a. True or false?



The next shape in my pattern will be a cube.

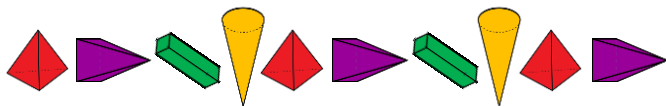


VF

12b. True or false?



The next shape in my pattern will be a cuboid.



VF

Varied Fluency
Patterns with 2D and 3D Shapes

Developing

- 1a. Various answers: shapes to be coloured in AB pattern.
2a. A. square, B. rectangle
3a. B
4a. True

Expected

- 5a. Various answers: shapes to be coloured in ABC pattern.
6a. A. rectangle, B. triangle
7a. A
8a. False, it will be a sphere.

Greater Depth

- 9a. Various answers: shapes to be coloured in ABCD pattern.
10a. A. circle, B. rectangle
11a. C
12a. False, it will be a cone.

Varied Fluency
Patterns with 2D and 3D Shapes

Developing

- 1b. Various answers: shapes to be coloured in AB pattern.
2b. A. triangle, B. circle
3b. B
4b. False, it will be a cone.

Expected

- 5b. Various answers: shapes to be coloured in ABC pattern.
6b. A. square, B. circle
7b. B
8b. True

Greater Depth

- 9b. Various answers: shapes to be coloured in ABCD pattern.
10b. A. triangle, B. circle
11b. B
12b. True