Homework/Extension Step 4: Making Patterns with Shapes

National Curriculum Objectives:

Mathematics Year 2: (2P2) <u>Use mathematical vocabulary to describe position, direction</u> and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Predict the next shape in a pattern of repeating shapes using half turns without missing turns.

Expected Predict a shape in a pattern of repeating shapes using quarter turns clockwise, missing one turn.

Greater Depth Predict a shape in a pattern of shapes using three quarter turns clockwise, or one quarter turn anticlockwise, missing two turns.

Questions 2, 5 and 8 (Varied Fluency)

Developing Match the rules to the correct pattern of shapes, quarter and half turns, clockwise and anticlockwise.

Expected Match the rules to the correct pattern of shapes, quarter, half and three quarter turns, clockwise and anticlockwise.

Greater Depth Match the rules to the correct pattern of shapes, quarter, half, three quarter and whole turns, clockwise and anticlockwise.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain whose pattern is completed correctly. Pattern contains up to two different shapes using quarter and half turns and clockwise or anti-clockwise. Expected Explain whose pattern is completed correctly. Pattern contains up to two different shapes using quarter, half, three-quarter and whole turns and clockwise or anticlockwise.

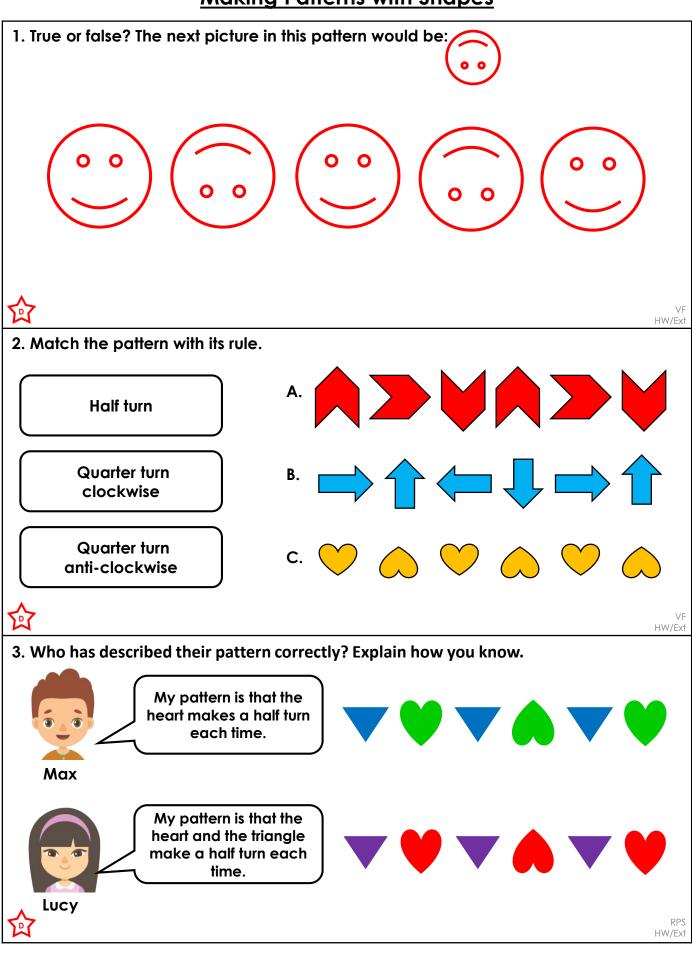
Greater Depth Explain whose pattern is completed correctly. Pattern contains up to three different shapes using quarter, half, three-quarter and whole turns and clockwise or anticlockwise.

More Year 2 Position and Direction resources.

Did you like this resource? Don't forget to review it on our website.

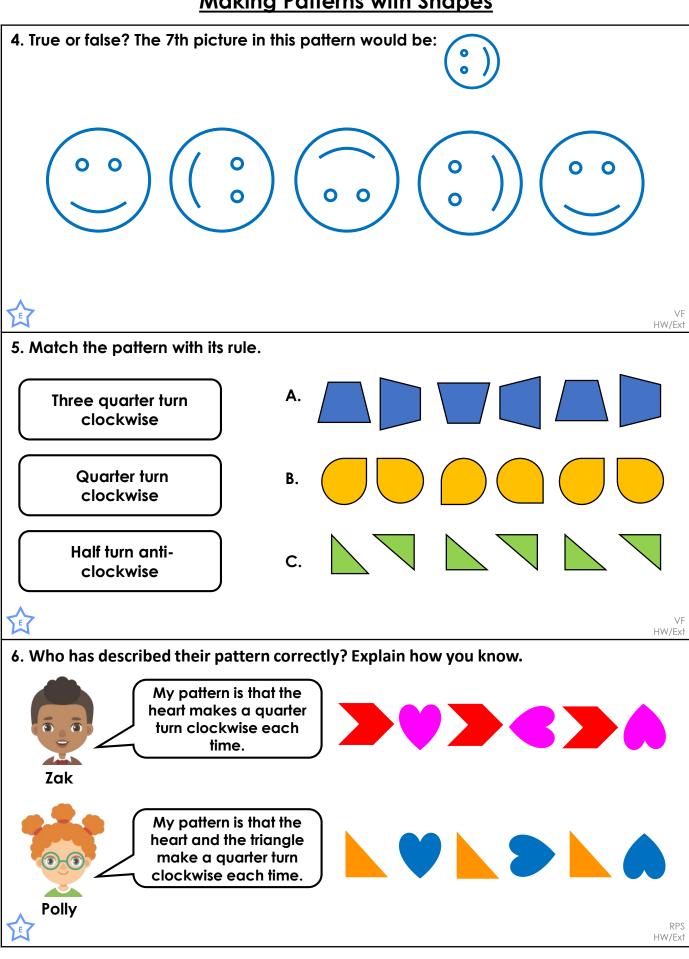


Making Patterns with Shapes



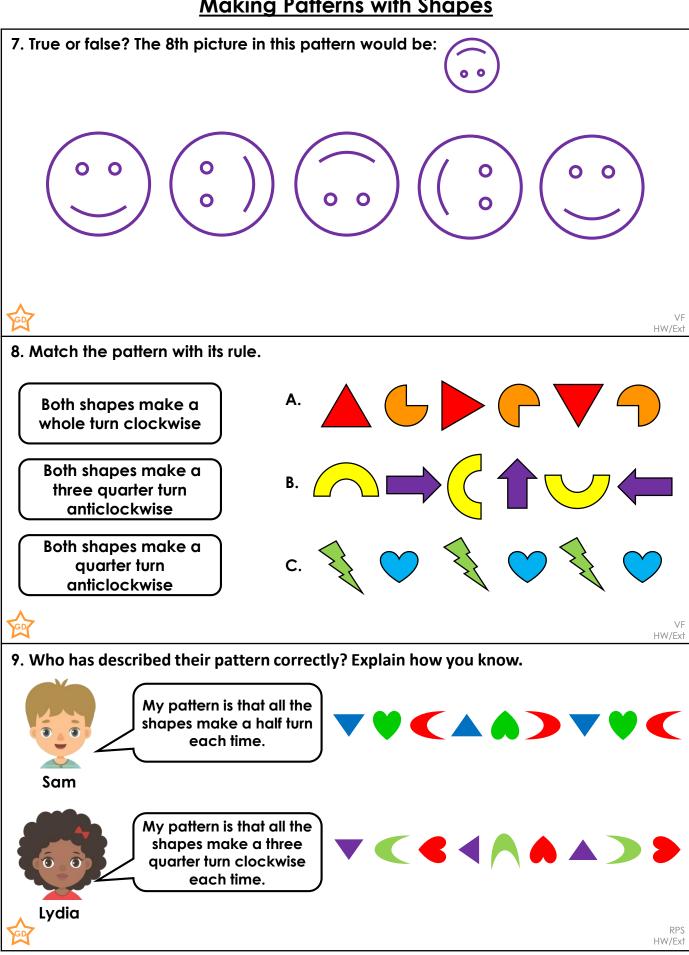


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<u>Homework/Extension</u> Making Patterns with Shapes

Developing

- 1. True
- 2. A = quarter turn clockwise; B = quarter turn anticlockwise; C = half turn
- 3. Max is correct. Lucy is incorrect as only the heart makes a half turn.

Expected

- 4. False, it should be
- 5. A = quarter turn clockwise; B = three quarter turn clockwise; C = half turn anticlockwise
- 6. Zak is correct. Polly is incorrect as the heart and triangle make a quarter turn anticlockwise.

Greater Depth

- 7. False, it should be
- 8. A = three quarter turn anticlockwise; B = a quarter turn anticlockwise; C = whole turn clockwise
- 9. Sam is correct. Lydia is incorrect as the shapes make a three quarter turn anticlockwise.