

# Maths

Calculation Policy

Position and direction

2024

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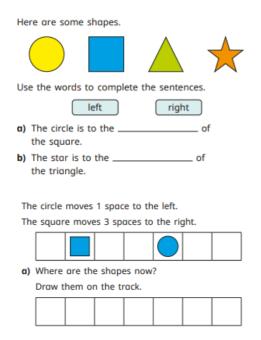
#### **EYFS**

- I can understand position through words (no actions)
- I can describe a familiar route using in front and behind
- I can select, rotate and manipulate shapes in order to develop shape reasoning skills



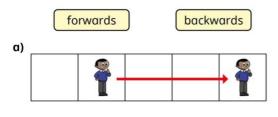
## Year One and Two (Both taught in Year One) - could use BeeBots

- I can describe turns
  - Pupils make whole, half, quarter and three-quarter turns in both directions and connect turning clockwise with movement on a clock face.
- I can describe position (left and right)



I can describe position (forwards and backwards)

Use the words to complete the sentences.



Mo moves 3 squares \_\_\_\_\_

# I can describe position (above and below)

Colour the cubes to match the sentences.



- · The top cube is blue.
- · The bottom cube is red.
- · The cube below the top one is green.
- The cube above the red one is yellow.
- The cube between the green and yellow cubes is purple.

#### • I can describe movement using positional language

Mo, Jo and Max are moving on a grid.

- a) Mo moves 2 squares forwards. Where does Mo end up?
- b) Jo moves 3 squares forwards and 2 squares left.

Max	cinema	school
<b>P</b>		
Mo	park	shop

Where does she end up?

- c) Max needs to get to the shop. How could he get there?
- I use ordinal numbers

Here are some objects.











- a) Circle the 1st object.
- b) Underline the 3rd object.
- c) Tick the 2nd object.

Here are some shapes.

Complete the sentences.

The 2nd shape is a \_\_\_\_\_\_

The 4th shape is a \_\_\_\_\_\_

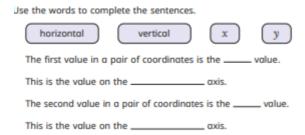
The star is the \_\_\_\_\_ shape.

The square is the \_\_\_\_\_ shape.

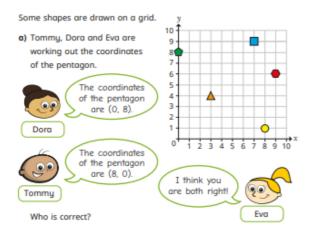
 I can order and arrange combinations of mathematical objects in patterns and sequences

# Year Three and Four (Both taught in Year Three)

- I can describe turns
  - Pupils make whole, half, quarter and three-quarter turns in both directions and connect turning clockwise with movement on a clock face.
- I can describe position (*left and right*)
- I can describe position (forwards and backwards)
- I can describe position (above and below)
- I can describe movement using positional language
- I can understand coordinates and axis



I can describe position using coordinates
 First quadrant only

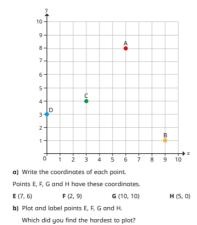


- I can plot coordinates
- I can draw 2D shapes on a grid
- I can translate on a grid
   <u>Translations of a given unit to the left/right and up/down</u>
- I can describe translations of a grid
- I use ordinal numbers
- I can order and arrange combinations of mathematical objects in patterns and sequences

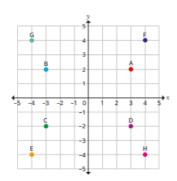
## Year Five and Six (Both taught in Year Five)

- I can understand coordinates and axis
- I can describe position using coordinates
   First quadrant only
- I can plot coordinates
- I can read and plot coordinates in the first quadrant

Four points are plotted on the coordinate grid.



• I can read and plot coordinates in four quadrants

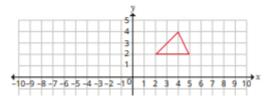


- I can draw 2D shapes on a grid
- I can translate on a grid

  Translations of a given unit to the left/right and up/down
- I can describe translations of a grid
- I can translate shapes using coordinates
- I can find the line of symmetry in a given shape
- I can use reflection using coordinates
   Reflections should be in lines that are parallel to the axes
- I can use reflection using shapes

  Reflections should be in lines that are parallel to the axes

Reflect the triangle in the y-axis.



I can solve problems including all of the above