

## Year 4 Position and Direction Knowledge Organiser.

| Position and Direction                                | Knowledge Organiser  |
|---|--|
| Key Vocabulary  | Position in the First Quadrant   |
| <b>coordinate</b>                                     | <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>y-axis.</p> <p style="text-align: right;">x-axis.</p> </div> <div style="width: 50%;"> <p>Coordinates are a useful way to locate a position on a map or grid.</p> <p>The numbers across the horizontal line of the grid are on the <b>x-axis</b>.</p> <p>The numbers on the vertical line of the grid are on the <b>y-axis</b>.</p> <p>We always read or write the number on the x-axis before the <b>y-axis</b>.</p> <p>The x and y position are written in brackets with a comma.</p> <p>The coordinate of the blue spot is <b>(2, 3)</b>.</p> </div> </div> |
| <b>quadrant</b>                                       |  |
| <b>x-axis</b>   |  |
| <b>y-axis</b>   |  |
| <b>translation</b>                                    |  |
| <b>vertex</b>   |  |
| <b>vertices</b>                                       |  |
| visit <a href="https://www.twinkl.com">twinkl.com</a> | <p>To help you remember which point to read or write first, simply remember to move 'along the corridor and up the stairs'.</p> <p>In other words, move on the x-axis and then move on the y-axis.</p> <div style="text-align: right; margin-top: 20px;"> </div>   |

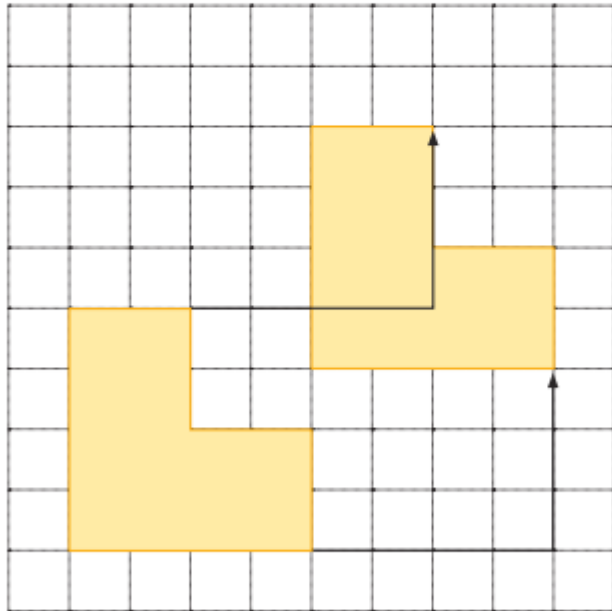
## Position and Direction

## Knowledge Organiser

### Translation

In maths, translation means moving an object on a grid. The object is moved without changing the size, turning or reflecting it.

When translating an object on a grid, it can move up or down, left or right.



### Plotting 2D Shapes

Each vertex (corner) of a 2D polygon can be represented as a coordinate on a 2D grid.

