

Y4 - Overview

|      | Autumn 1 |   | Autumn 2 |   | Spring 1 |   | Spring 2 |   | Summer 1 |    | Summer 2 |    |
|------|----------|---|----------|---|----------|---|----------|---|----------|----|----------|----|
| Unit | 1        | 2 | 3        | 4 | 5        | 6 | 7        | 8 | 9        | 10 | 11       | 12 |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Unit 6            | Coordinates<br>(2 WEEKS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Ready to progress | 4G-I Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| NCETM documents   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Small steps       | 1.To give directions to move an object from one position to another on a grid.<br>2.To move objects, including polygons, on a grid according to directions and mark their new positions.<br>3.To describe translations of polygons drawn on a square grid.<br>4.To draw polygons on a grid according to a given translation.<br>5.To mark the position of points specified by coordinates in the first quadrant of a coordinate grid.<br>6.To write coordinates for already marked points in the first quadrant of a coordinate grid.<br>7.To draw polygons specified by coordinates in the first quadrant.<br>8.To complete polygons with missing coordinates using translations from the origin.<br>9.To translate polygons in the first quadrant.<br>10.To solve problems involving marking and translating points in the first quadrant on a coordinate grid                                                                                                  |
| Links             | <u>Classroom Slides</u> <a href="https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.ncetm.org.uk%2Fmedia%2Fgtffunto%2Fcp-year-4-unit-7-coordinates.pptx&amp;wdOrigin=BROWSELINK">https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.ncetm.org.uk%2Fmedia%2Fgtffunto%2Fcp-year-4-unit-7-coordinates.pptx&amp;wdOrigin=BROWSELINK</a><br><br><u>Oak</u> - <a href="https://www.thenationalacademy/teachers/programmes/maths-primary-ks2/units/coordinates/lessons?sid-d053d8=I8UrSs-d7o&amp;sm=0&amp;src=3">https://www.thenationalacademy/teachers/programmes/maths-primary-ks2/units/coordinates/lessons?sid-d053d8=I8UrSs-d7o&amp;sm=0&amp;src=3</a><br><br><u>Whiterose</u> - <a href="https://assets.whiteroseeducation.com/new-schemes/Y4%20Summer%20Block%206%20SOL%20Position%20and%20direction.pdf">https://assets.whiteroseeducation.com/new-schemes/Y4%20Summer%20Block%206%20SOL%20Position%20and%20direction.pdf</a> |
| Reasoning         | Working backwards<br>Here are the co-ordinates of corners of a rectangle which has width of 5.<br>(7, 3) and (27, 3)<br>What are the other two co-ordinates?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

Problem solving

CLICK HERE 

Glossary

- Grid - A set of lines used to help us accurately draw graphs is known as grid.
- Position - Position means where something is located (often in relation to something else.)
- Horizontal - Horizontal means side to side, like the horizon.
- Vertical - Vertical means in an up-down direction.
- Polygon - A polygon is a 2D shape made up of three or more straight lines.
- Translated / translating - Translation is a transformation in which every point of a shape moves the same distance in the same direction. The act of moving is to translate.
- Translation - Translation is a transformation in which every point of a shape moves the same distance in the same direction.
- Origin - The origin is where the x-axis and y-axis cross.
- Coordinate - Coordinates are a set of values that show an exact position.
- Polygon - A polygon is a 2D shape made up of three or more straight lines.
- Vertex / vertices - A vertex is the point where two lines meet. The plural is vertices.
- Translate - Translation is a transformation in which every point of a shape moves the same distance in the same direction.
- Translate / translation - Sliding or moving a shape without rotating or flipping it means to translate.

Stem sentences

The polygon has been translated \_\_\_\_\_ squares to the \_\_\_\_\_ and \_\_\_\_\_ squares to the \_\_\_\_\_

First, count along the x-axis, then count along the y-axis

Representations



