Coordinates

## Prior learning

- Can identify vertical and
horizontal lines.
Can recognise and name common 2D shapes.


## Learn

- Review children's understanding of number lines. Draw simple horizontal and vertical number lines. Start each one at zero, and practise counting forwards and backwards along them in steps of 1, 2 and 5 .


## Curriculum objectives

- To describe positions on a 2D grid as coordinates in the first quadrant.
To plot specified points and draw sides to complete a given polygon.

Success criteria

- I can plot points and read coordinates on a coordinate grid.
- Display a squared grid, and draw vertical and horizontal axes. Label each axis from 0 to 10 and point out how the axes cross at zero. Model good practice zero. Model good practice for plotting points and writing heir coordinates. Always say long, then up so that children emember that the first number a pair of coordinates is the orizontal distance from zero and the second is the vertical distance. Once the children are
amiliar with this, work together to draw different shapes on the coordinate grid, with the vertex of each labelled with a letter and its coordinates.
- 100 Maths Lessons Year 4 Autumn 2, Week 5, Lesson 3 focuses on this topic and uses the interactive coordinates resource on the accompanying CD-ROM.


## Talk maths

- The treasure map activity can be used in various ways, such as giving directions, identifying landmarks and buring treasure Children would also enjoy plare. hildren would also enjoy playing version of battleships: define different insects as different length lines and ask children to try to find each others' insects by identifying the coordinates on the points that the insects lie across


## Problems

The activities in the textbook involve plotting points and drawing shapes. Ideally, children will practise these skills on several occasions. Note that the activities in the Year 4 Practice Book provide extended suppor for children who need additiona practice. original at (7, 2). work.

Challenge the children to plot other points that are given distances and directions from the

100 Maths Lessons Year 4, Spring 2, Week 5 has lessons that link coordinates with previous shape


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## 100 Maths Lessons

## Year 4 links:

Autumn 2, Week 5 (pages 71-76): describe positions and plot points on a coordinate grid

- Spring 2, Week 5 (pages

153-158): describe positions and plot points on a
coordinate grid

- Summer 2, Week 5 (pages 236-241): draw shapes on a coordinate grid


## Year 4 Practice Book links:

(page 114): Mystery picture coordinates

- (page 115): Mystery picture coordinates
- (page 116): Plotting shapes
- (page 117): Shapes and coordinates

