














Marvellous Maps: Grid References

Aim: To use four and six-figure grid references to build their knowledge of the United Kingdom and the wider world by finding features on a map. I can use four and six-figure grid references to locate places on a map.	Success Criteria: I can tell you how to give co-ordinates by going along and then up. I can find a location from four or six-figure co-ordinates.	Resources: Lesson Pack
	Key/New Words: Co-ordinates, grid reference, easting, northing.	Preparation: Grid References Activity Sheet - as required

Prior Learning: It will be helpful if children have learnt about co-ordinates in the first quadrant in mathematics.

Learning Sequence

	Where Is The...? Using the grid, ask children to describe the location of different symbols. Ensure they give co-ordinates in the correct order (along the corridor, up the stairs) and that they give the correct numbers (for the line below and to the left of each object).	
	Grids on Maps, Eastings and Northings, Four-Figure Grid References: These slides explain how an Ordnance Survey map is split into a grid of squares (each 1km ²), what eastings and northings are and how to use four-figure grid references.	
	Cracking a Code: Children use the Cracking a Code Activity Sheet to find places from the co-ordinates given, and then list key letters to spell a word or phrase. <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  Children use simple four-figure co-ordinates, using a simple map of a village (Map 1). </div> <div style="text-align: center;">  Children use simple four-figure co-ordinates, using a more detailed map of a town. (Map 2). </div> <div style="text-align: center;">  Introduce six-figure grid references, linking the idea to decimal places in mathematics. (Map 3). </div> </div>	
	Six-Figure Grid References: This slide explains how each 1km square can be sub-divided into a grid of 10 x 10 smaller squares to help pinpoint an exact location. On an OS map, each small square would be 100m on the ground.	
	The National Grid Grid: This slide explains how the UK is split into map areas. This means that different OS maps can use the same grid numbers.	

Taskit

- Crackit:** Ask children to create their own code breaking quiz by creating a grid 5 x 6 and filling in the letters of the alphabet. Use the co-ordinates of each letter to write a message.
- Mapit:** Ask children to create simple maps of places in your school and create a grid system to give co-ordinates for locations.
- Plotit:** Provide children with a blank co-ordinates grid. In pairs, one partner gives an instruction for their partner to follow, for example, draw a church at (20, 15). Can children create identical maps? This is also a great opportunity to revise map symbols!