



### Catholic Social Teaching Big Question:

How can digital maps show us where people need help, like after a natural disaster?

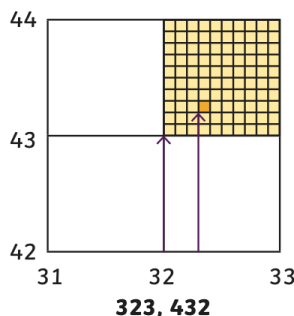
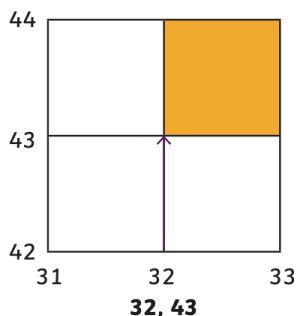
# Year 6 – Using Maps



## 1. Key Scientific Knowledge Concepts and Skills

### Grid References

- A map is criss-crossed with horizontal and vertical lines that create a grid.
- The grid and squares help to narrow a search area so you can locate features on a map.
- Usually, the lines are numbered with two digits.
- Eastings** are the numbers that run from west to east.
- Northings** are the numbers that run from south to north.
- The **easting** and **northing** numbers are put together to create a four-digit **grid reference**, e.g. (32,43), which refers to the bottom left corner of a square on the map.
- Grid references** can be even more specific by adding an extra digit to both the **easting** and **northing** numbers.
- These six-digit **grid references**, e.g. (323,432), tell us more precisely whereabouts in the square something is.



### Symbols

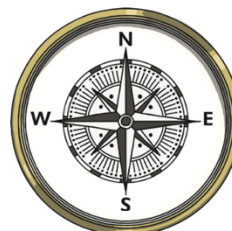
- Maps use **symbols** instead of words to label real-life features.
- A key on the map tells you what the **symbol** means.

	Nature Reserve		Cycle Trail		Footpath
	Motorway		Train Station		Place of Worship

### Compass Points

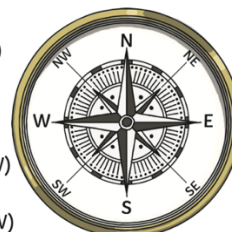
#### Four-Point Compass

N - north  
E - east  
S - south  
W - west



#### Eight-Point Compass

north (N)  
north-east (NE)  
east (E)  
south-east (SE)  
south (S)  
south-west (SW)  
west (W)  
north-west (NW)



**Northing** = 436

**Easting** = 338

**6-figure grid reference** =  
436338

## 2. Key Scientific Vocabulary and Definitions

<b>compass</b>	A tool used for showing direction.
<b>digital map</b>	A map that uses technology such as a satnav.
<b>easting</b>	The numbers used in a <b>grid reference</b> that run west to east.
<b>grid reference</b>	The numbered squares on a map used to locate a place.
<b>northing</b>	The numbers used in a <b>grid reference</b> that run south to north.
<b>Ordnance Survey maps</b>	Detailed maps of Great Britain where each square represents 1km squared (1km <sup>2</sup> ).
<b>symbols</b>	Small pictures, letters or lines that represent a feature.
<b>rural</b>	<b>Rural</b> areas are found in the countryside, surrounded by open land.
<b>urban</b>	<b>Urban</b> areas are areas where many people live and work, resulting in a dense population.
<b>route</b>	A way or course taken in getting from a starting point to a destination.

## 3. Prior Scientific Knowledge, Concepts and Skills

- Describe how maps have a compass on them to show which way the map goes.
- Recognise that a map is a view from above and has symbols on it and describe how maps show us how to plan a journey.
- Know how Ordnance Survey symbols can be used to locate amenities on a map. Apply four-figure grid references to locate objects on a map, using 'northings' then 'eastings' to give a grid reference.
- Recommend a short route, using four-figure grid references.