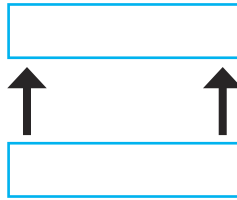


Year 5 Position and Direction

Translate / Translation

A shape is translated when it is moved without rotating or resizing.

Every point of the shape moves the same distance in the same direction.



Reflect / Reflection

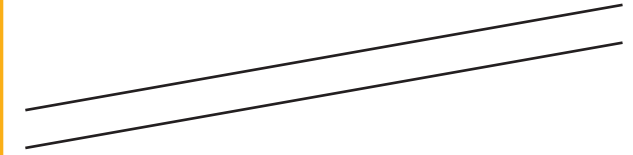
A shape is reflected about a line when it is flipped over a mirror line.



Every point of the shape is the same distance from the mirror line as the same point on the reflected shape.

Parallel

Parallel lines are always the same distance apart and never touching.

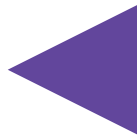


Vertex / Vertices

The corner of a shape is called a vertex.

The plural is vertices. A triangle has 3 vertices.

vertex



Point

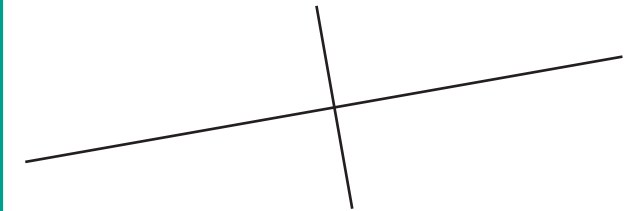
A point is an exact location.

It has no size, only position. They are shown by dots or parts of a line, but they have no size.



Perpendicular

Perpendicular lines meet at a right angle.

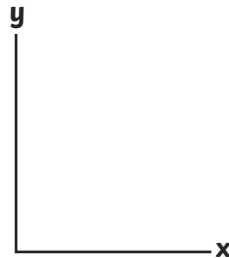


Axis / Axes

A coordinate grid has axes.

The x axis is horizontal.

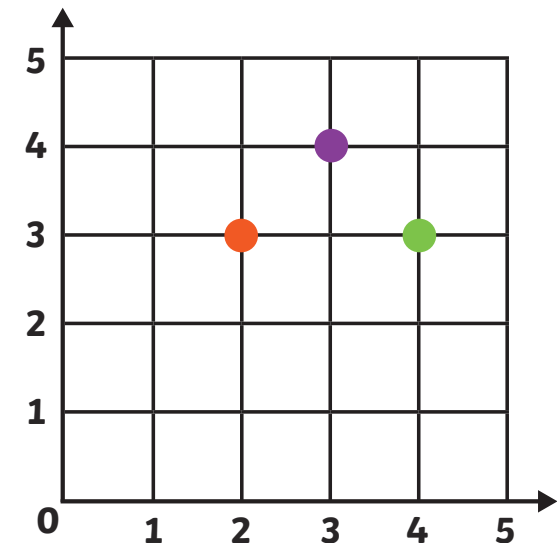
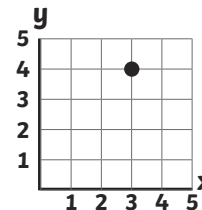
The y axis is vertical.



Coordinates

Coordinates mark the location of a point on a coordinate grid.

The coordinates are written in brackets in the format (x,y) where x is how far along and y is how far up.



left



right



up



down



visit [twinkl.com](https://www.twinkl.com)