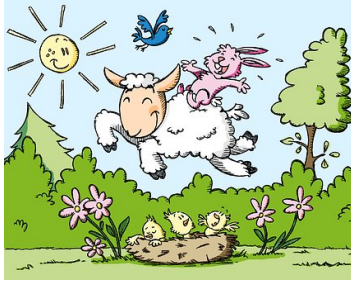


Position

A place where something is.

The lamb is **above** the birds.



The trees are **behind** the bushes.

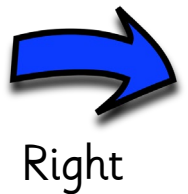
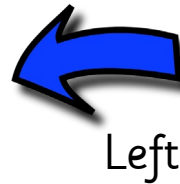
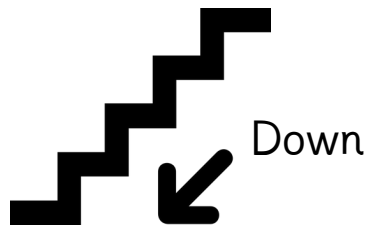
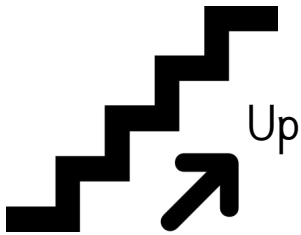
The flowers are **next to** the nest.

The rabbit is **on top** of the lamb.

masterthecurriculum.co.uk

Direction

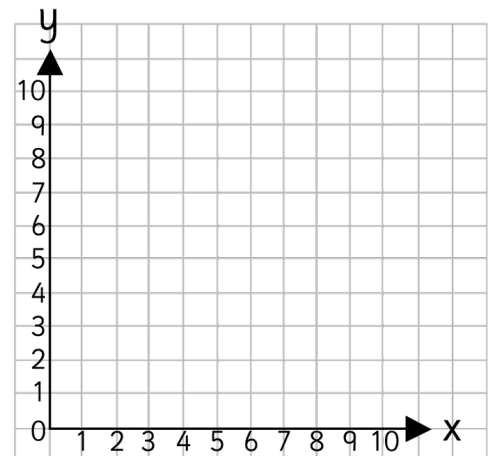
The path taken when a person or object moves.



masterthecurriculum.co.uk

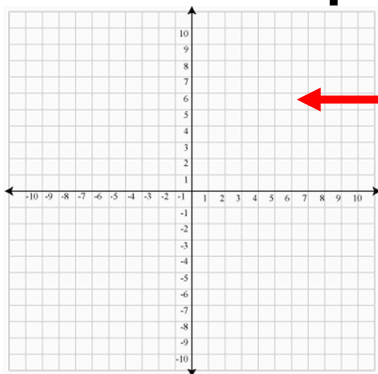
Grid

Equally spaced squares with two perpendicular lines (axes) used to plot points.



masterthecurriculum.co.uk

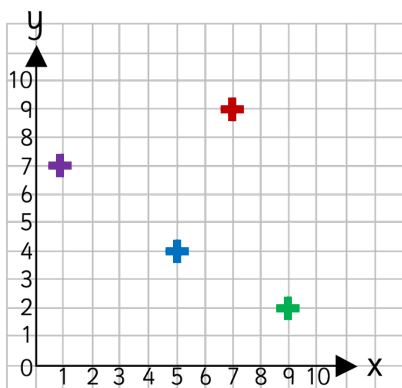
First Quadrant



The upper right section of a grid where both the x and y values are positive.

masterthecurriculum.co.uk

Co-ordinates

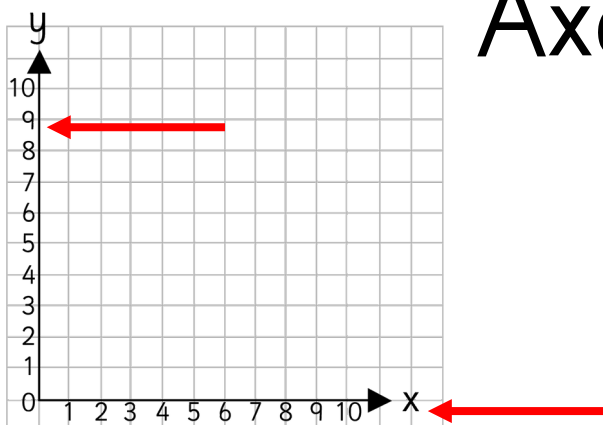


A pair of numbers that shows an exact position on a grid.

The co-ordinates of **+** are $(7, 9)$

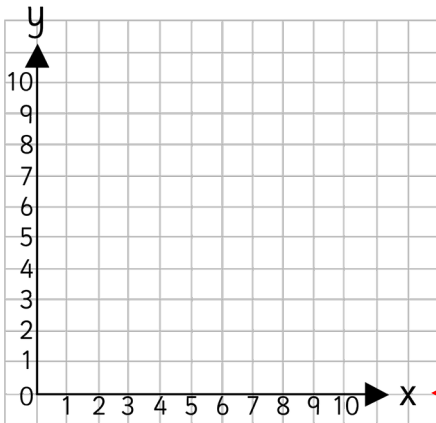
masterthecurriculum.co.uk

Axes



The horizontal and vertical number lines on a grid used to plot co-ordinates.

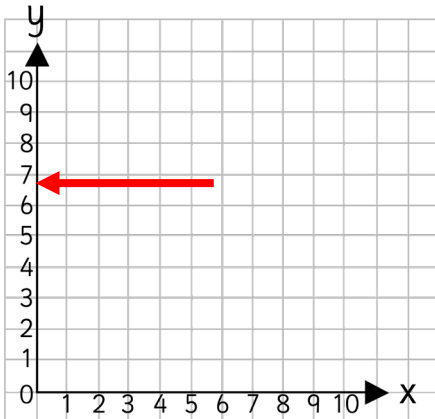
masterthecurriculum.co.uk



x-axis

The horizontal number line on a grid. The x -axis is always plotted first.
e.g.; (3, 5)

masterthecurriculum.co.uk

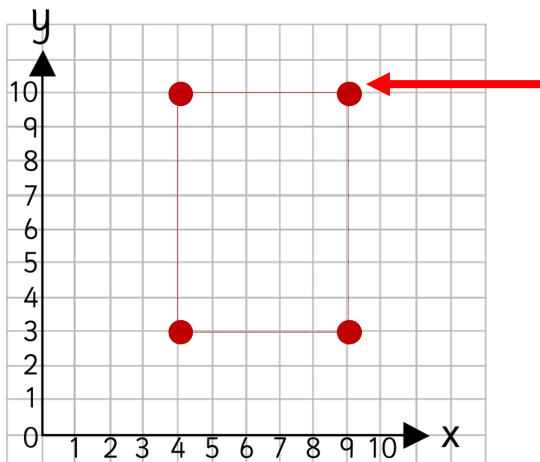


y-axis

The vertical number line on a grid. The y -axis is always plotted second.
e.g.; (3, 5)

masterthecurriculum.co.uk

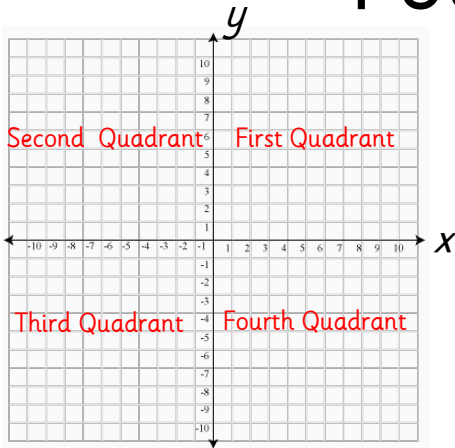
Vertex/Vertices



The co-ordinate (vertex) or co-ordinates (vertices) where two lines or edges meet to create a 2D shape.

masterthecurriculum.co.uk

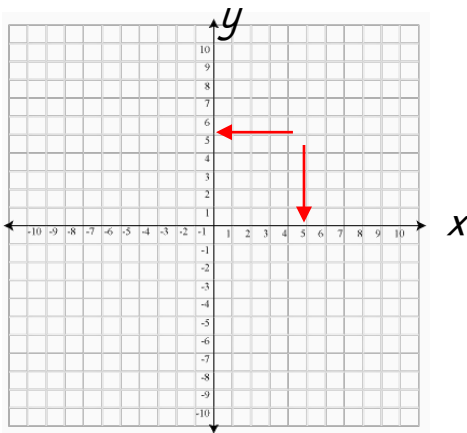
Four Quadrants



A grid that extends the x and y axis beyond the origin at right angles to reveal negative scales.

masterthecurriculum.co.uk

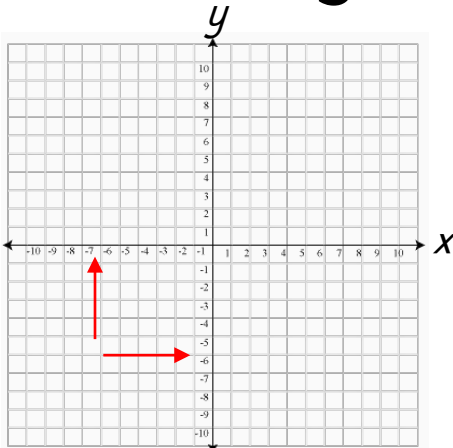
Positive Co-ordinates



Positive co-ordinates go to the right on the x axis and up on the y axis.

masterthecurriculum.co.uk

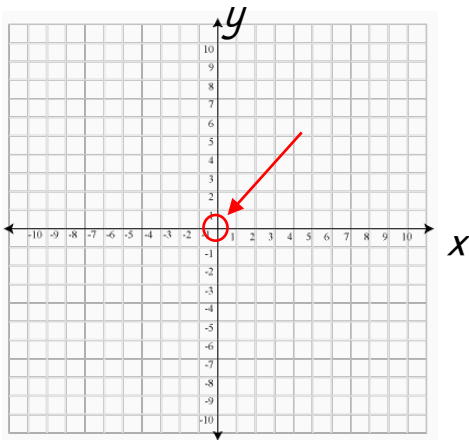
Negative Co-ordinates



Negative co-ordinates go to the left on the x axis and down on the y axis.

masterthecurriculum.co.uk

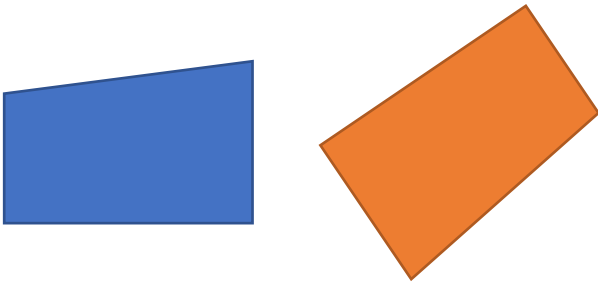
Origin



The starting point on a grid where the x axis and y axis intercept. The **co-ordinates** of the origin are $(0,0)$.

masterthecurriculum.co.uk

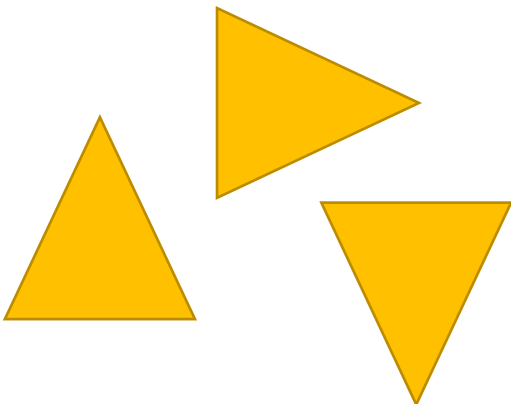
Congruent



Two shapes that are the same size and the same shape are **congruent**.

masterthecurriculum.co.uk

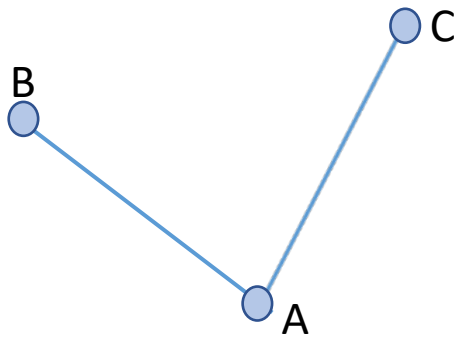
Orientation



The direction an object is placed in the space it occupies.

masterthecurriculum.co.uk

Equidistant

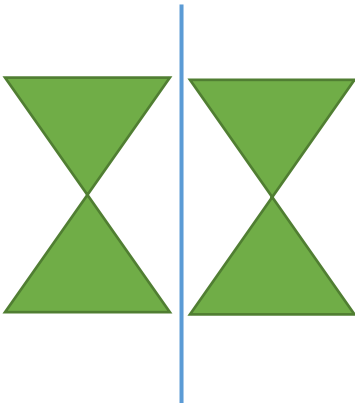


A point is **equidistant** from 2 other points when it is the same distant away from those points.

A is **equidistant** from B and C.

masterthecurriculum.co.uk

Symmetry

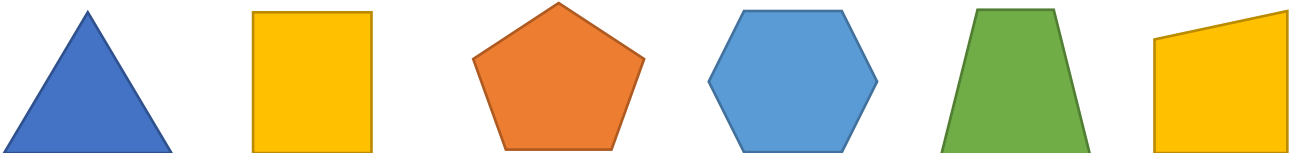


Something is **symmetrical** when it is the same on both sides of a line of symmetry.

masterthecurriculum.co.uk

Polygon

A flat 2D shape with straight sides that are fully closed.

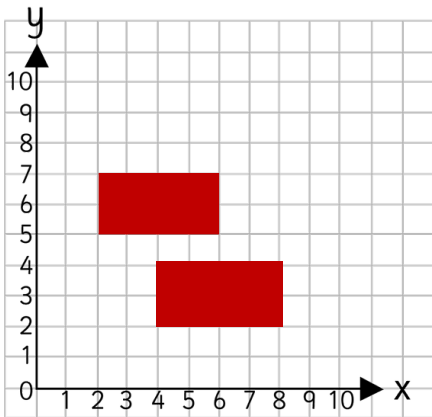


masterthecurriculum.co.uk

Translation

The movement of a shape on a grid without rotating or resizing it.

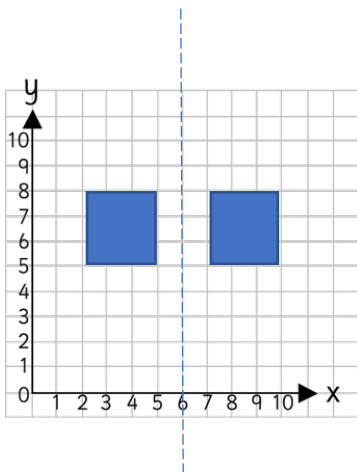
The rectangle has been translated 2 right, 3 down.



masterthecurriculum.co.uk

Reflection

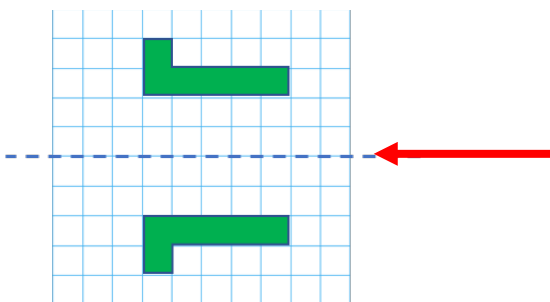
To transform a shape across a mirror line – the image does not change size but is flipped symmetrically to face the other way.



masterthecurriculum.co.uk

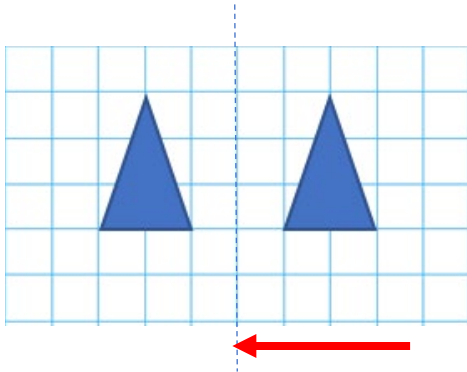
Horizontal Mirror Line

A line of reflection that runs from left to right parallel to the x -axis.



masterthecurriculum.co.uk

Vertical Mirror Line



A line of reflection that runs up and down parallel to the y -axis.

Position & Direction Year 6

Position

A place where something is.

The lamb is **above** the birds.

The trees are **behind** the bushes.

The flowers are **next to** the nest.

The rabbit is **on top of** the lamb.

masterthecurriculum.co.uk

Position & Direction Year 6

First Quadrant

The upper right section of a grid where both the x and y values are positive.

masterthecurriculum.co.uk

Position & Direction Year 6

Four Quadrants

A grid that extends the x and y axis beyond the origin at right angles to reveal negative scales.

masterthecurriculum.co.uk

Position & Direction Year 6

Direction

The path taken when a person or object moves.

Up

Down

Left

Right

masterthecurriculum.co.uk

Position & Direction Year 6

Co-ordinates

A pair of numbers that shows an exact position on a grid.

The co-ordinates of $\color{red}{+}$ are $(7, 9)$

masterthecurriculum.co.uk

Position & Direction Year 6

Positive Co-ordinates

Positive co-ordinates go to the right on the x axis and up on the y axis.

masterthecurriculum.co.uk

Position & Direction Year 6

Grid

Equally spaced squares with two perpendicular lines (axes) used to plot points.

masterthecurriculum.co.uk

Position & Direction Year 6

Axes

The horizontal and vertical number lines on a grid used to plot co-ordinates.

masterthecurriculum.co.uk

Position & Direction Year 6

Negative Co-ordinates

Negative co-ordinates go to the left on the x axis and down on the y axis.

masterthecurriculum.co.uk

Position & Direction Year 6

x-axis

The horizontal number line on a grid. The x -axis is always plotted first. e.g. $(3, 5)$

masterthecurriculum.co.uk

Position & Direction Year 6

Origin

The starting point on a grid where the x axis and y axis intercept. The co-ordinates of the origin are $(0, 0)$.

masterthecurriculum.co.uk

Position & Direction Year 6

Equidistant

A point is equidistant from 2 other points when it is the same distant away from those points. A is equidistant from B and C

masterthecurriculum.co.uk

Position & Direction Year 6

y-axis

The vertical number line on a grid. The y -axis is always plotted second. e.g. $(3, 5)$

masterthecurriculum.co.uk

Position & Direction Year 6

Congruent

Two shapes that are the same size and the same shape are congruent.

masterthecurriculum.co.uk

Position & Direction Year 6

Symmetry

Something is symmetrical when it is the same on both sides of a line of symmetry.

masterthecurriculum.co.uk

Position & Direction Year 6

Vertex/Vertices

The co-ordinate (vertex) or co-ordinates (vertices) where two lines or edges meet to create a 2D shape.

masterthecurriculum.co.uk

Position & Direction Year 6

Orientation

The direction an object is placed in the space it occupies.

masterthecurriculum.co.uk

Position & Direction Year 6

Polygon

A flat 2D shape with straight sides that are fully closed.

masterthecurriculum.co.uk

Position & Direction Year 6

Translation

The movement of a shape on a grid without rotating or resizing it.

The rectangle has been translated 2 right, 3 down.

masterthecurriculum.co.uk

Position & Direction Year 6

Vertical Mirror Line

A line of reflection that runs up and down parallel to the y -axis.

masterthecurriculum.co.uk

Position & Direction Year 6

Horizontal Mirror Line

A line of reflection that runs from left to right parallel to the x -axis.

masterthecurriculum.co.uk

Position & Direction Year 6

Reflection

To transform a shape across a mirror line – the image does not change size but is flipped symmetrically to face the other way.

masterthecurriculum.co.uk

Year 6 – Position and Direction Vocabulary Assessment

masterthecurriculum.co.uk

Position		Direction		Grid	
First Quadrant		Co-Ordinates		<i>Axes</i>	
<i>x axis</i>		<i>y axis</i>		Vertex/Vertices	
Four Quadrants		Positive Co-ordinates		Negative Co-ordinates	
Origin		Orientation		Symmetry	
Polygon		Equidistant		Reflection	
Translation		Congruent		Vertical Mirror Line	
Horizontal Mirror Line					

Year 6 – Position and Direction Vocabulary Assessment

masterthecurriculum.co.uk

Position		Direction		Grid	
First Quadrant		Co-Ordinates		<i>Axes</i>	
<i>x axis</i>		<i>y axis</i>		Vertex/Vertices	
Four Quadrants		Positive Co-ordinates		Negative Co-ordinates	
Origin		Orientation		Symmetry	
Polygon		Equidistant		Reflection	
Translation		Congruent		Vertical Mirror Line	
Horizontal Mirror Line					

Year 6 – Position and Direction Vocabulary Assessment

masterthecurriculum.co.uk

Position		Direction		Grid	
First Quadrant		Co-Ordinates		<i>Axes</i>	
<i>x axis</i>		<i>y axis</i>		Vertex/Vertices	
Four Quadrants		Positive Co-ordinates		Negative Co-ordinates	
Origin		Orientation		Symmetry	
Polygon		Equidistant		Reflection	
Translation		Congruent		Vertical Mirror Line	
Horizontal Mirror Line					