

Year 6 Position and direction Knowledge Organiser

Lesson sequence:

Learning focus: To read and plot in 4 quadrants

Learning focus: To solve problems with coordinates

Learning focus: To translate shapes

Learning focus: To reflect shapes

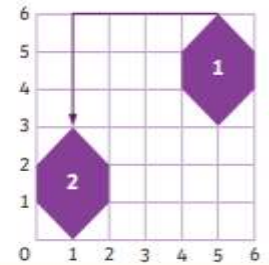
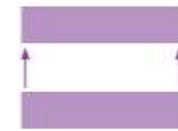
Vocabulary revision

Plot
Polygon
Integers
Quadrants
Axes
Movement
Reflect
Coordinates
Point

New vocabulary Translations

Translation

A shape is translated when it is moved without being rotated or resized. Every point of the shape moves the same distance and in the same direction.



Shape 1 has been translated 4 units left and 3 units down.

Sticky Learning

New knowledge

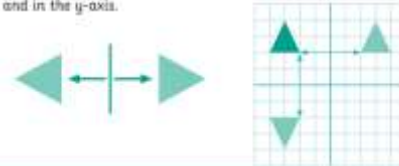
- To know that there are four quadrants in a coordinate grid

New Skills

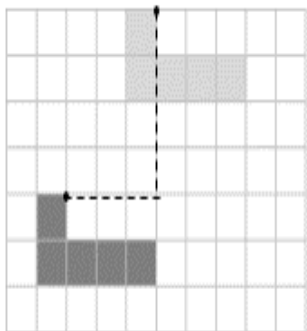
- To describe movements between positions as translations of a given unit to the left/right and up/down
- To plot specified points and draw sides to complete a given polygon
- To describe positions on a 2-D grid as coordinates in the first quadrant
- To draw a pair of axes in one quadrant, with equal scales and integer labels
- To read, write and use pairs of coordinates

Reflections

A shape is reflected when it is flipped over a line which acts as a mirror. Every point on the original shape is the same distance from the mirror line as the same point on the reflected shape. The original triangle has been reflected in the x-axis and in the y-axis.

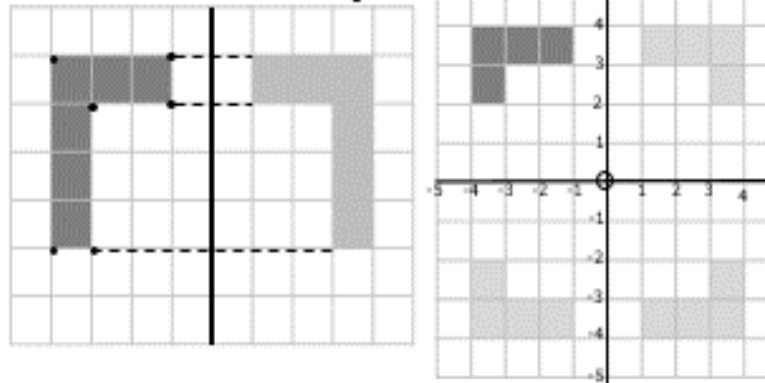


translation



Translate the shape
3 units right and 4
units up

reflection



coordinates

