## Year 5 position and direction

## Prior Knowledge

Links to geography
EGPS links (prepositions)
Real life application - Forest School
Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) (Y2)

- Telling the time
- Year 4 Juniper Hall

0. Describe positions on a 2-D grid as coordinates in the first quadrant (Y4)
1. Describe movements between positions as translations of a given unit to the left/right and up/down (Y4)
2. Plot specified points and draw sides to complete a given polygon (Y4)

| position and direction |  | Working Towards | Within | Expected | Above |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\leftarrow \uparrow$ | Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed |  |  |  |  |

Highlights: $\qquad$


## Glossary




Translate / Translation

in the same direction.

## Vertex / Vertices

The corner of a shape is called a vertex.
The plural is vertices. A triangle has 3 vertices.


## 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.


## Perpendicular



Resources
beebots, grids, outside learning, chrome books, ruler, mirror, square paper and lego

Future Learning

|  | Year 6 |
| :--- | :--- |
|  | Describe positions on the full coordinate grid (all 4 quadrants) |
| Draw and translate simple shapes on the coordinate plane, and reflect them in the axes |  |

