In Year 5 we learnt that horizontal means parallel to the horizon and that vertical means at right angles to the horizon.

8 Write horizontal or vertical or sloping to describe the lines of these objects.

- The top of a table
- A flagpole
- The floor beneath you
- A slippery dip
- The side of a door
- The top of a door
- The ceiling above you
- Your bedroom wall

Lines that intersect at right angles are called perpendicular lines.

9 Tick the lines below that are perpendicular.

- [ ]
- [ ]
- [ ]
- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

Two or more lines that are exactly the same distance apart are called parallel lines. Parallel lines do not have to be the same length.

10 Which sets of lines below are parallel?

- (a, b, c, d, e)
- (f, g, h, i, j)

11 Draw examples of these lines.

- [ ] Parallel
- [ ] Horizontal
- [ ] Vertical
- [ ] Perpendicular
7 Describe the movements needed to create this pattern. Use the words translate, rotate and reflect.

8 Creating a tessellating pattern.

a Draw 4 arrows, identical to the one displayed, on 4 pieces of graph paper measuring 3 cm x 3 cm.

b Cut out the 4 squares and translate, rotate and reflect them to make the 4 patterns below.

9 Complete the tessellating pattern to fill the grid.

10 Design your own tessellating pattern.

1 cm graph paper