# Angles

### Prior Knowledge:

Names of types of polygons, The word Regular

### Check:

Draw any polygons with names that you know. Eg 3 sides, 4 sides, 5 sides etc…

### Vocabulary:

Terms that relate to lines (adjacent, equal, parallel, perpendicular).

### Check:

Tell your partner the definition of

Adjacent lines

Equal lines

Draw two lines which are:

Parallel

Perpendicular

### Aims:

To know about two types of symmetry

### Check:

What does it mean for a shape to be symmetrical?

Draw me a shape and show its symmetry.

### Aims:

To understand rotational symmetry.

### Check:

Introduction to rotational symmetry

<https://www.mathsisfun.com/geometry/symmetry-rotational.html>

Fun practice, of dubious educational value.

<https://www.mathsisfun.com/geometry/symmetry-artist.html>

Test

<https://www.free-training-tutorial.com/math-games/symmetry-rotational-game.html>

### Aims:

To know the names and properties of quadrilaterals

### Activities:

Standards Unit classification tasks.

Poorly drawn quadrilaterals:

<https://www.geogebra.org/m/EDcr2Rj7>

Extension:

Create a flow chart to classify quadrilaterals.

### Aims:

To use the terminology of quadrilaterals

### Activities:

In pairs:

One person chooses a polygon with 6 or fewer sides but doesn’t tell the other person what it is.

The other person must ask yes / no questions in order to work out which it is.

This can take place through Desmos:

<https://teacher.desmos.com/polygraph/custom/5ae234427dca745769a320c9>

### Assessment:

Draw a parallelogram and mark on the parallel and equal sides.

How many pairs of parallel sides does a trapezium have?

How many pairs of equal length sides does a kite have?

What is the difference between a parallelogram and a rhombus?

What is the name of a regular quadrilateral?