# Angles in Circles B

### Prior knowledge:

Terminology: vertex/vertices, angle, circle, radius, diameter, perpendicular, circumference, chord, segment, arc

To describe angles using three vertices.

To spot and use isosceles triangles within circles.

### Check:

**B**

**A**

**C**

**O**

Describe the angles in this picture

Red

Yellow

Blue

Green

Purple

**B**

**A**

**C**

**O**

What type of triangle is OAB and how do you know?

What about triangle ABC?

Name another isosceles triangle and explain how you know it is isosceles.

### Aims:

To use angle rules within circles and explain your reasoning

To develop a new rule involving angles in circles

### Activities:

### Worksheet – Angles in Circles B intro

Look for patterns and write down what you notice.

First one or two as examples for those who didn’t remember the prior knowledge.

### Aims:

To know two new rules involving angles in circles

To know possible names / ways to describe them.

To recognise the different appearances of the rules depending on the location of the vertices.

### Activities:

Class notes, listing the possible layouts, based on Geogebra to show how the picture can change.

Resource: Angles in Circles B geogebra demo

Practice:

Angles in Circles B Practice

DFM Angles in Circles B

Extension:

Angles in Circles C Practice Peer Creation

**Assessment:**

<https://diagnosticquestions.com/Quizzes/Go#/87195>