



CIRCLES AND THEIR PARTS

Teacher notes

Learning objectives:

Understand the meanings of the following terms associated with circles:

Diameter, Radius, Circumference, Arc, Sector, Segment, Chord, Tangent

Teacher presentation

The teacher presentation is designed as a focus for whole class teaching by providing:

- visual stimulation / animation to aid understanding
- structure for teacher-led discussion
- opportunities for thinking skills development

The activities on each slide are meant to be used by the teacher to help structure the questioning and class discussion.

The presentation is menu driven - an outline of each menu item is given below:

THE PARTS OF A CIRCLE

In this activity, the teacher can hover over the names of the circle parts and they will be highlighted on the diagram. In addition, a definition will be given.

INTERACTIVE DIAGRAMS

This is an interactive diagram to support questioning and discussion.

The teacher could use this to consolidate knowledge gained from the first activity.

The key can be hidden and the parts of the diagram can be manipulated.

Possible questioning:

- Is a diameter also a chord?
- Can a sector be a segment?
- Which part of the diagram shows a segment?

Circles and their parts

Objectives:

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- Diameter
- Radius
- Circumference
- Arc
- Sector
- Segment
- Chord
- Tangent

THE PARTS OF A CIRCLE NAMING ACTIVITY

INTERACTIVE DIAGRAMS MATCHING ACTIVITY

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Parts of a Circle

Hover over the parts of a circle below to learn more about them

Diameter

Radius

Circumference

Chord

Tangent

Area

Sector

Segment

Arc

A line inside the circle with both ends touching the perimeter

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MENU

Interactive circle - Microsoft Internet Explorer provided by HACC

SHOW/HIDE KEY

CIRCUMFERENCE ----

DIAMETER —

RADIUS —

CHORD —

ARC and SECTOR —

ARC and SEGMENT —

TANGENT —

G.Fee, Created with GeoGebra

MENU

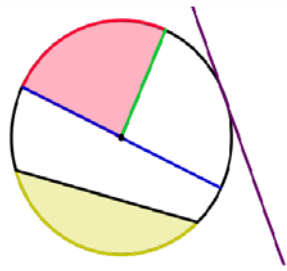
NAMING ACTIVITY

This is a drag and drop activity – students could be invited to the whiteboard to drag the labels in the correct place on the diagram.

Created using Raptivity - www.raptivity.com

The circle

Displayed below is a circle with some common parts of a circle. Can you label them correctly?



segment
chord
radius
sector
arc
tangent
diameter

Submit

Place each label in the correct place on the diagram.

MATCHING ACTIVITY

This activity is meant to be used as a plenary activity. The idea is to match up each term with its' description.

This could be done as a whole class question and answer activity.

Created using Raptivity - www.raptivity.com

Circle vocabulary

Circle term		Description	
Diameter	Radius	The distance around the circle	A section enclosed by two radii and an arc
Tangent	Chord	A section of the circumference	Any straight line across the circle
Arc	Circumference	A line across the circle passing through the centre	A straight line that touches the circle once only
Sector	Segment	A section enclosed by a chord and an arc	A line from the centre to the circumference

Submit

Click a circle term on the left hand side and then click its matching description from the right hand side.

Learning object

This is an interactive learning and assessment tool designed to engage students in solving problems related to the learning objectives.

This is meant to follow the teacher presentation and be used by students to consolidate learning and to practise applying their knowledge and understanding.

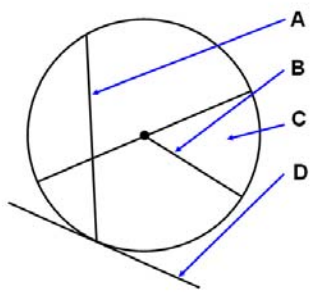
This activity includes:

- A revision video to support note taking.
- 16 questions about identifying and labelling parts of circles.
- 4 questions where students investigate the properties of some circle parts.

Question 3

Look at the diagram.

Which one of these is a sector?



A
B
C
D

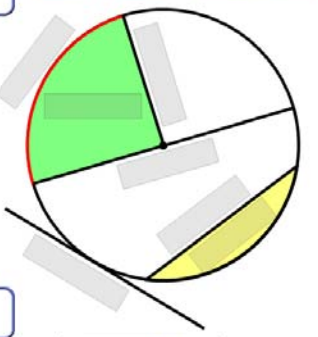
Attempts: 1

Question 16

Drag the labels to their correct place on the diagram.

RESET SUBMIT

TANGENT
CHORD
SEGMENT
SECTOR
ARC
RADIUS
DIAMETER



Your score for this question will be reduced if you have more than 1