

**Learning Target:**

- I can define and identify parts of a circle.
- I can find the measures of central and inscribed angles.

**Activity 1: Vocabulary of circles**

Choose one (or more) of the above review options to go through and practice your circle vocabulary.

Video: <https://www.youtube.com/watch?v=EAsJPCkq4ew>

Powerpoint:

<http://schoolwires.henry.k12.ga.us/cms/lib08/GA01000549/Centricity/Domain/6678/Circle%20Vocabulary.pptx>

Quizlet:

<https://quizlet.com/953846/circle-vocabulary-geometry-flash-cards/>

**Activity 2: Inscribed angles vs. central angles**

Go through one or both of the Powerpoint videos for more information on circles.

<http://www.rowan.k12.ky.us/userfiles/1211/Classes/9546/Powerpoint%20on%20inscribe%20angles%20and%20central%20angles.pptm>

[http://teachers.henrico.k12.va.us/henrico/palen\\_l/ppt/LESSON8-5.ppt](http://teachers.henrico.k12.va.us/henrico/palen_l/ppt/LESSON8-5.ppt)

**HW:**

- 1) Go to [join.quizizz.com](http://join.quizizz.com) (on phone or computer) and do the following assessments. Enter your real name to receive credit for this activity. The codes for the two assignments are 140294, 499166, 481908, and 109278.
- 2) (3.2) handout

## Learning Target:

- I can find the measures of angles and arcs formed by secants, tangents, and chords of circles.

### Activity 3: Interior and exterior angles in circles

Choose one (or more) of the video options to go through and practice.

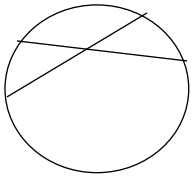
<https://www.youtube.com/watch?v=z3yKPYk-xik>

<https://www.youtube.com/watch?v=zKYGxYpaN2A>

Guided notes

<http://www.mathwarehouse.com/geometry/circle/tangents-secants-arcs-angles.php>

If two secants or chords intersect in the interior of a circle, then the measure of the angle formed is half the sum of the measure of its intercepted arcs.



**Interior Angle** – vertex of angle inside the circle (not at center)

$$\angle = \frac{1}{2} (\text{arc} + \text{arc})$$

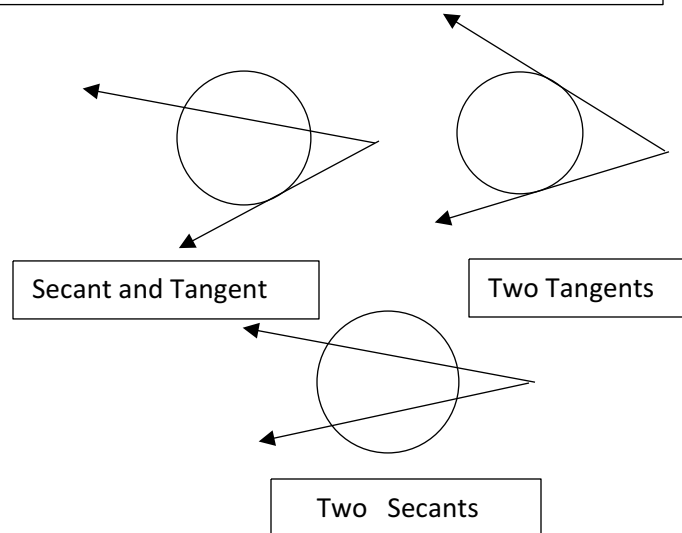
Or

$$\angle = \frac{\text{arc} + \text{arc}}{2}$$

2

**HW: (3.3) handout**

If two segments intersect in the exterior of a circle, then the measure of the angle formed is half the difference of the measure of its intercepted arcs.



**Exterior Angle** – vertex of angle outside the circle

$$\angle = \frac{1}{2} (\text{big arc} - \text{little arc})$$

Or

$$\angle = \frac{\text{big arc} - \text{little arc}}{2}$$

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