## WELCOME



Folsom High

Warm-Up

## Chapter 9 Section 1 Circle Vocabulary

## Chap 9 Section 1 Learning Target

Identifying characteristics and key vocabulary of Circles.

## Circle Basics

The set of all points that are equidistant from a given point, called the center of the circle.

## Radius:

center to the side
Chord:
Connects two sides
Diameter:
Connects sides through center


A circle with center $P$ is called "circle $P$ ", or $\odot P$.

## Circles with Lines

## Secant:

A line that intersects a circle in two different places.

## Tangent:

A line that intersects a circle in only one place.

## Point of Tangency

A line is tangent to a circle IFF it is perpendicular to the line that connects the center and point of tangency

You can use the Converse of the Pythagorean Theorem to tell whether $\overleftrightarrow{E F}$ is tangent to $\odot D$.


## Central $\angle$ and Arcs

An arc is defined by the points where a central $\angle$ hits the circle. (A central $\angle$ has its vertex at the center.)

## Major Arc

An arc with interior angle greater than or equal to $180^{\circ}$

In $\odot$ P BCA is major


Central L

In $\odot P \overparen{A B}$ is minor

## Minor Arc

An arc with interior angle less than $180^{\circ}$

## Inscribed Angles

An angle whose vertex is on the side of a circle and whose sides are chords of the circle.


The arc that lies in the interior of an inscribed angle is called the Intercepted Arc.

## Semi Circle

## An Arc that makes up Exactly half the circle ( $180^{\circ}$ )


$A B$ is a Semicircle

