## 6

Pre-AP Geometry $9^{\text {th }}$ Grade

## Geometric Probability

## Objectives

- apply the proportional relationship between the measure of the area of a sector of a circle and the area of the circle to solve problems;
- determine probabilities based on area to solve contextual problems;
- apply the formula for the area of regular polygons to solve problems using appropriate units of measure;
- apply theorems about circles, including relationships among angles, radii, chords, tangents, and secants, to solve noncontextual problems;


## Student Prior Knowledge



## Lesson Outline

How do we find the area of these objects?

7 in.


Spinner

## Game Stations



## Differentiated Instruction

Incorporation of different learning styles


Students can choose to work with a partner or may work alone

Connecting the lesson with sports and games

GameTheory

## Formative

## Assessment

Homework with practice problems: computational and conceptual

## Summary of Learning Goals

Exit ticket or end of class discussion

