S. B. Collar

Pre-AP Geometry 9th 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











5-8 minutes at each station

Record answers

Differentiated Instruction

Incorporation of different learning styles

Challenge students with an open-ended question



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

Connecting the lesson with sports and games



Formative Assessment

Homework with practice problems: computational and conceptual



Summary of Learning Goals

Exit ticket or end of class discussion