**Lesson Plan Outline Geometry in Construction**

**Title:**

Finding points on a circle

**Objective(s):**

Students will determine if a point lies on a circle using equations for circles and trigonometry.

**Learning Standard(s):**

[CCSS.MATH.CONTENT.HSG.GPE.B.4](http://www.corestandards.org/Math/Content/HSG/GPE/B/4/)

Use coordinates to prove simple geometric theorems algebraically. *For example, prove or disprove that a figure defined by four given points in the coordinate plane is a rectangle; prove or disprove that the point (1, √3) lies on the circle centered at the origin and containing the point (0, 2).*

**Activities:**

Students will analyze a map of an area to determine if particular points reside within or on a circle.

**Materials:**

iPad with Geometry Pad App

Equations of Circles Packet