**Lesson Plan Outline Geometry in Construction**

**Title:**

Chords of a Circle

**Objective(s):**

Students will solve problems involving chords and arcs of a circle

**Learning Standard(s):**

[CCSS.MATH.CONTENT.HSG.C.A.2](http://www.corestandards.org/Math/Content/HSG/C/A/2/)

Identify and describe relationships among inscribed angles, radii, and chords. *Include the relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects the circle.*

**Activities:**

Students will be assessed on circles and area of sectors

Students will explore the properties of a chord and arcs through activities and technology

**Materials:**

Circles & Area of a Sector Quiz

iPad with Geometry Pad App

Chords of a Circle W.S.