**Lesson Plan Outline Geometry in Construction**

**Title:**

Radicals in Congruent Forms

Applications of Pythagorean Theorem

**Objective(s):**

Student will be able to write radicals in congruent forms.   Students will also be able to estimate radicals without a calculator.   Students will understand the difference between estimates and exact.

Students will solve problems involving the Pythagorean Theorem and giving exact solutions.

**Learning Standard(s):**

[CCSS.MATH.CONTENT.HSG.SRT.C.8](http://www.corestandards.org/Math/Content/HSG/SRT/C/8/)Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.\*

**Activities:**

Congruent Radical Forms Game

Students will solve various construction problems using the Pythagorean Theorem

**Materials:**

Pythagorean Theorem Applications W.S.