**Lesson Plan Outline Geometry in Construction**

**Title:**

Water Balloon Launch

**Objective(s):**

Students will use trigonometry and inverse trigonometry to predict the distance traveled of a launched water balloon.

**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:**

Water balloon launch

**Materials:**

Water balloon launcher

Tape measure, water balloons or baseball, TI calculator

Water balloon launch activity W.S.