**Lesson Plan Outline Geometry in Construction**

**Title:**

Parallel Lines & a Transversal

**Objective(s):**

The students will define alternate interior and exterior angles, same-side interior angles, and corresponding angles.  The student will explore the relationships of angles formed by parallel lines and a transversal.

**Learning Standard(s):**

[CCSS.MATH.CONTENT.HSG.CO.C.9](http://www.corestandards.org/Math/Content/HSG/CO/C/9/)Prove theorems about lines and angles. *Theorems include: vertical angles are congruent; when a transversal crosses parallel lines, alternate interior angles are congruent and corresponding angles are congruent; points on a perpendicular bisector of a line segment are exactly those equidistant from the segment's endpoints*.

**Activities:**

The students will use apps and geometry software to discover the relationships of alternate interior and exterior angles, same-side interior angles, and corresponding angles.

Parallel Lines & Transversals Twister

**Materials:**

iPad with Geometry Pad App

Tape for Twister

Algebra & Angles Practice W.S.