**Lesson Plan Subject: Algebra/Geometry/Physical Science** (9th-12th grades)

**Lesson Focus:** Regulating Intersections **Time:** 50 minutes

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**Guiding Question, Course/Grade Level Expectations, and SPI’s** are included for Physical Science, Biology, Physics, Algebra 1, Algebra 2, and Geometry. (**See the** **Standards Spreadsheet**.)

**Materials:** PowerPoint Presentation [Intersections](http://intersectionoperationsintro.pptx)

You Tube Videos

Computer for each student

**Preparing the lesson:**

1. Review the PowerPoint.

2. Make sure that student computers have Flash Player to view games.

**Teaching the Lesson:**

1. This is a good follow-up to the “Intro to Transportation” in activity 1.
2. Present the PowerPoint and then show selected You Tube Videos to illustrate the dilemma of maintaining good traffic flow in large cities.
3. Distribute student computers and instruct them to go to [http://street.UMN.edu/games.html](http://street.umn.edu/games.html).
4. Here they will find 3 games. Allow 10 to 15 minutes for each of the three games.
5. Instruct students to record their scores as they complete each level.
6. Be prepared for an increased noise level! FUN!

**Assessment:**

Students can submit their individual score sheets or you may want them to combine their scores and submit a team score. Team points can be awarded based on 1st through last places.