**Lesson Plan Subject: Math and Science** (9th-12th grades)

**Lesson Focus:** Pedestrian Traffic / Developing a Safe School Traffic Plan **Time:** 45 minutes for Discussion and group activity, 30-45 minutes for group presentations

**Guiding Question, Course/Grade Level Expectations, and SPI’s**  are included for 6th, 7th, and 8th grade Math and Science, Physical Science, Biology, Physics, Algebra 1, Algebra 2, and Geometry. (**See the** **Standards Tab)**

**Materials:** - PowerPoint Presentation [Traffic\_Calming.ppt](http://traffic_calming.ppt)

Additional information can be found at <http://www.tfhrc.gov/safety/pedbike/pubs/05085/>

- PowerPoint Presentations Safe Route To School.ppt

[SRTS\_GEE\_TREC.ppt](http://srts_gee_trec.ppt)

- Computer for each team

**Preparing the lesson:**

1.Review PowerPoints and accompanying notes.

2. Divide students into small groups. (4-5 students)

**Teaching the Lesson:**

Discuss “Traffic Calming” and the “Safe Route to School Program”, using PowerPoint presentations and web sources.

Safe Routes to Schools activity:

* Use Google Earth, Google Maps, or Bing to locate a school to study
* Analyze the existing conditions in terms of safe routes criteria for school traffic and pedestrians
* What suggestions would you make for creating a safer school transportation plan?
* Ideas and images can be found at <http://www.trafficcalming.org/> under “Types of Measures.”
* Create a PowerPoint or Slideshow presentation with 2-3 slides to illustrate current conditions and recommendations for improvements.
* Present your ideas to the class.

**Assessment:** SeeTechnical Presentation guidelines and rubric that accompany this file.  **2010 0-Technical Presentation.docx**

**Closing Activity:**

**Journal Writing:** Have students reflect on their method(s) of problem solving and communicating. How could they have improved their methods, communication, and accuracy?

**Extension:**  Invite a panel of school officials to attend an event to hear the students’ concerns and recommendations.