**Cooperative Group Problem Solving Challenge**

**VRROOOMM !**

**Lisa Lim-Cole & Margaret Scora**

**TASK:**

Determine the energy stored in the toy car when it is pulled back 2.0 cm.

**Documentation of the Challenge:**

1. Picture of the set up. [C]
2. Statement that describes the challenge. [C]
3. Brainstorming and Planning with reasoning for the plan. Theory must be used to support the plan. Any relevant equations to complete the challenge must be included. Include any assumptions and approximations. [T/I][A][K/U][C]
4. Measurements and Analysis. Collect the data! Record and organize your data clearly! [T/I][K/U][C]
5. Conclusions and Error Discussion. State your final results. Discuss if the final results seem reasonable. Discuss any errors. [K/U][T/I][C]

**Teacher Instructions:**

The documentation process is the same for all activities of this type. This allows students to improve their communication skills throughout the course.

I have materials in the classroom that is readily available for students to use when they need it. Masses, scales, spring scales, measuring tapes/meter sticks, stopwatches, tape, string, scissors, whiteboards, markers are easily accessible and students are encouraged to use these materials whenever they need it.

The goal to have students problem solve not only the “mathematics” of the problem, but also to develop an ability to problem solve the process for measurement, collecting data, planning and merging theory to practice and to develop an ability to critically think about the problem they are presented to solve.