***HAST Egg-cellent Road Adventure With Bill & Ted***

***Team # \_\_\_\_\_\_\_\_ Engineer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***\*\*\*Highlighted items are based on the individual***

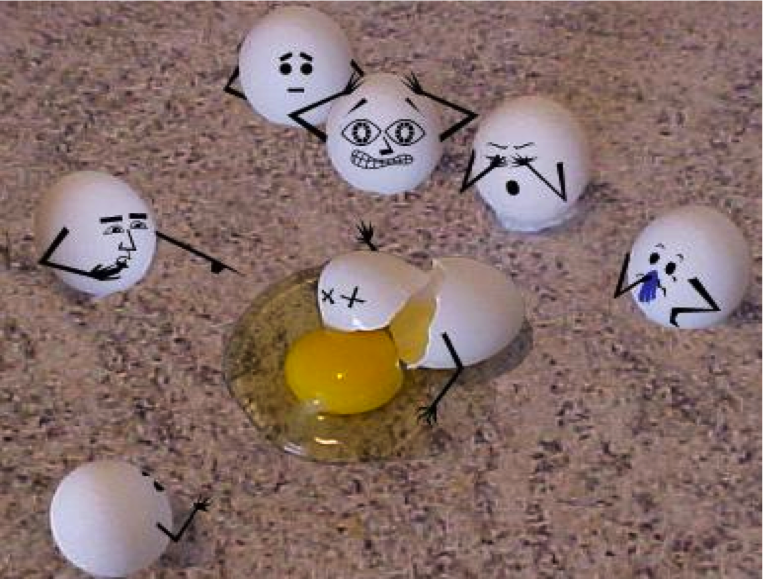
***Assessment Scale:***

**4: Mastery:** Your work demonstrates excellence in this portion of the activity.

**3: Accomplished:** Your work fulfills all of the objectives of this portion of the activity.

**2: Acceptable:** Your work is acceptable, but needs minor revisions.

**1: Unacceptable:** Your work is either incomplete, or requires major revisions.

***Survival of the Driver Occupant* (Bill) \_\_\_\_\_\_\_\_\_\_\_\_\_\_pts**

* Bill survive the crash unharmed (no cracks): (4)
* Bill is injured (shell cracked) in the crash: (3)
* Bill *egg-spires* (cracks with leakage) in the crash: (2)

***Survival of the Passenger Occupant* (Ted) \_\_\_\_\_\_\_\_\_\_\_\_\_\_pts**

* Ted survive the crash unharmed (no cracks): (4)
* Ted is injured (shell cracked) in the crash: (3)
* Ted *egg-spires* (cracks with leakage) in the crash: (2)

***Presentation of Design to Class ( 3-4 minute max) \_\_\_\_\_\_\_\_\_\_\_ pts***

* Presentation was organized, well-planned, **used note card**. \_\_\_\_\_\_\_\_
* Presentation was thorough and included all relevant content material. \_\_\_\_\_\_\_\_
* Responses to questions were clear and appropriate. \_\_\_\_\_\_\_\_
* Design was justified to class in presentation. \_\_\_\_\_\_\_\_
* Presenter handled himself or herself in a professional manner. \_\_\_\_\_\_\_\_
* Presentation included a variety of audiovisual media and visual aids. \_\_\_\_\_\_\_

***Classwork/Group work \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_pts***

* Student shows consistent effort. \_\_\_\_\_\_\_\_
* Work started in a businesslike manner at start of class. \_\_\_\_\_\_\_\_
* Willingness to help other students. \_\_\_\_\_\_\_\_
* Suitable class conduct displayed. \_\_\_\_\_\_\_\_
* Student actively contributes to the group effort. \_\_\_\_\_\_\_\_
* Student actively participates in the peer review process. \_\_\_\_\_\_\_\_
* Student completes work in a timely fashion (at specified deadlines). \_\_\_\_\_\_\_\_
* Student worked responsibly as an Engineer, and was supportive to the other members of the design team. \_\_\_\_\_\_\_\_

***Knowledge Applied \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_pts***

* Connection between mass and collision applied to vehicle and discussed.
* Connection between area, pressure and force applied to vehicle and discussed.
* Connection between speed and collision applied to vehicle and discussed.
* Connection between mass or speed and breaking distance (friction) applied and discussed.

***Drivability \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_pts***

* Car drives in a straight line and has frontal impact.
* Bill and Ted fit in the car and enter through side doors.
* Wheels must make contact with the ground and rotate.
* Bill and Ted can see out the side and front of car.
* Restraints implemented.
* Crumple zone and safety features implemented. Total points: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_24pts