

Egg Crash Vehicle Grade Sheet

Name: _____ Date: _____ Block: _____

Challenge:

To design and construct a vehicle using appropriate materials that will safely carry an uncooked egg (driver) over a given distance down a ramp without causing injury (cracked egg) or death (broken egg) to the driver upon impact with a barricade (concrete block).

Rules: *Deduct 10 points per missing item* (Check all that apply)

- The vehicle must have the first three components to qualify for testing:
 - Wood Frame with bumpers (suspension optional)
 - Interior (seat, seatbelts, protection suit, etc.)
 - Body (hardtop or convertible)
 - The vehicle must be no longer than 12" in length including all bumpers and safety equipment.
 - Vehicle must have some type of a front bumper system.
 - The vehicle must have wheels supplied by instructor.
 - The vehicle must fit within the limits of the ramp supplied by the instructor.
 - The vehicle must carry an uncooked egg (driver).
 - The egg must remain securely in the vehicle at all times.
 - Egg will be placed vertically in vehicle.
 - Egg cannot be glued or taped in the vehicle.
 - The driver must have an unobstructed 180° field of vision out the front and sides of the vehicle.
 - One-half of the egg must be visible.
 - Egg must be restrained by a seatbelt or seatbelt system.
 - Egg must be removed from car within 30 seconds after crash.

Points:

Rules Total: (150 pts) _____

Egg Survival: Yes (50 pts) or No (-50 pts) _____

Vehicle Design Rubric: (100 pts) _____

Participation: (100 pts) _____

Daily Journal: (50 pts) _____

Drawings and Sketches: (50 pts) _____

Total Points: (500 pts) _____

Letter Grade: _____