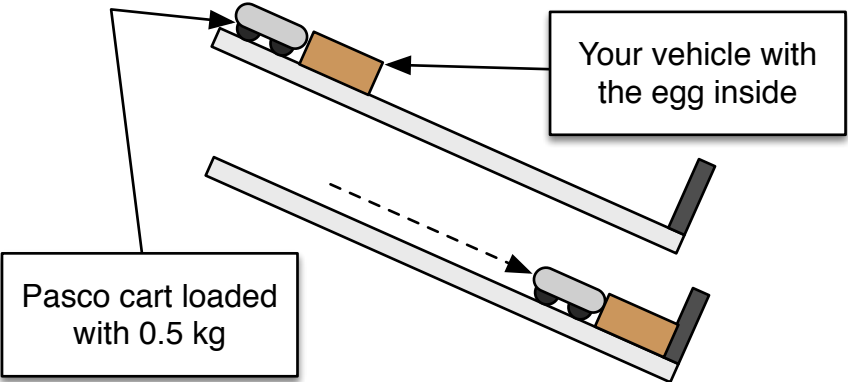


Egg Crash Project

team members:

Materials: 2 file folders, tape.

Objective: Build a vehicle that will protect an egg as it gets pushed down the ramp by a loaded Pasco cart and gets sandwiched between the cart and a barrier.



Constraints:

- You may work in pairs or alone.
- Egg must get in and out easily.
- Tape is only for connecting file folder; it cannot be structural.
- The car can't be wider than the track (4 inches)
- The car can't be more than 4 inches tall.
- The car can't be more than 9 inches long.

Design Grade

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Egg restraints & cushioning

- Egg gets in & out easily.
- Egg is properly restrained.
- Egg is cushioned.

Safety Cage

- Compartment with egg is strong to resist crushing.

Crumple Zones

- Front and rear designed to give to increase time & reduce force.

Performance Grade

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Egg: no internal injuries

- Force vs Time graph has no sharp peak.

Egg: no external injuries

- Egg is not crushed or cracked with cart + 0.5 kg.

Wow

- Egg is not crushed or cracked with cart + 1 kg.

Overall Grade

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