

## Egg Launch Competition (Tues Nov 8<sup>th</sup>)

Purpose: Launch eggs. build teamwork, learn some physics

### Rules:

- There is a target in the soccer field
- There are flags marking 5', 10', 20', 30', ... away from the target.
- Patrols make capsules that will protect a raw egg from launch and impact.
- Patrols will be given a raw egg to put in the capsule.
- Patrols take turns launching their capsules using a water balloon launcher from a flag they select. The launcher will be provided.
- Patrols can make as many capsules as they want and repair or modify them between launches.

### Scoring:

- In order to score points
  - the egg must not crack (you must show the judge the egg) and
  - the capsule must come to rest within a "bullseye" around the target
    - The greater of 20 feet or  $\frac{1}{4}$  the distance launched.
- From each flag, the scoring capsule coming to a rest closest to the target will receive one point for each foot from the flag to the target.
- The second closest scoring launch will receive  $\frac{1}{2}$  the number of points as the closest launch. The third will receive  $\frac{1}{3}$ , ... the 6<sup>th</sup> will receive  $\frac{1}{6}$ . no points are awarded beyond 6<sup>th</sup> place for any flag.
- Patrols receive the points for the eggs they launch.

### What to bring:

- Warm clothes (we're launching outside)
- Flash light (it's dark outside)
- Stuff to make egg capsules (cans, duct tape, plastic pop bottles, foam, paper, ...)

Awards: Candy for first place.