



Physics Phood Phight

aka The Geeky Version of Jell-o Shooters



You (and an optional partner) will be constructing a projectile launcher to shoot jell-o (of your making) at an opponent (who will be shooting back at you) from one picnic table to another. The outer edges of the picnic tables will be 12' apart. An obstruction will exist midway between the tables that will reach 4' above the table surfaces. You will have one qualifying shot to prove that your project can land the jell-o in a region that has some hope of hitting an opponent; this gets you a base score of 85%. You will then pair off against an assigned opponent. You will take turns firing at each other; you will get 3 shots each. Hitting an opponent gives you a +5% score, while flinching costs you 5% (that's YOU, not your partner); in the event of a flinching penalty, your partner (if any) must replace you on the firing line.

Restrictions:

- NO combustion! NO engines! NO compressed fluids! NO purchased kits!
- Your project must fit on a 12" x 18" placemat (any orientation) that must sit on the table in front of you during the battle.
- Your project must include a kitchen utensil as some integral part of its functioning mechanism.
- Your jell-o must be edible (you may be requested to try it), contain no foreign particles, and (obviously) be non-alcoholic.

Bonuses:

- Neutral judges (teachers) will award bonuses for creativity and craftsmanship.
- 5% bonus for each hit of an opponent.
- 10% bonus for hitting a 3' diameter target held at a randomly assigned height at a distance of 8' (by your partner); only one chance at this!

Details:

Projects are due on 12/1, the Monday following Thanksgiving break; they will be tested Tuesday 12/2, so bring your jell-o by that day.

Your name(s) and period(s) must be written on the bottom of your project; this allows impartial judging.

If you have a partner from another period, find out if either of you can make it to the other's period Tuesday, if so, you may test then (let Carter know). If you can't, then testing will be at lunch or after school Tuesday.

You must provide your own poncho! Carter will provide eye protection.

