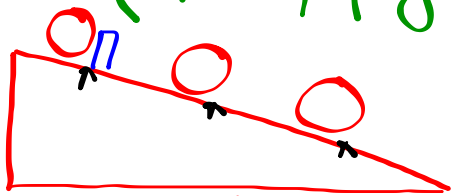
Final project:

- → Toy/game
- → Measure
  1. Force (sensor)
  2. Distance the sensor moves while pushing
- → Calculate WORK = Force x distance

ALSO: Adjustments!

→ 3 Fixed adjustments
(nails, pegs, stoppers)

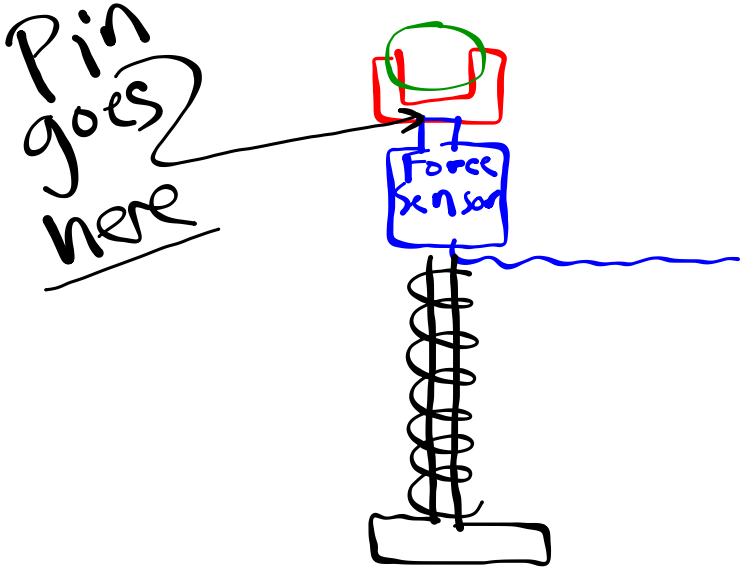


example

→ These adjustments must affect either force measured by the sensor or the distance the sensor moves.

(in other words: your adjustment needs to affect the work you calculate)

Example: (for a pinball machine, which you can't build!)



three holes in the base — this adjusts how far the sensor moves (and the size of the force)

TODAY:

1. Discuss ways to add adjustments to your project
   - 3 FIXED SETTINGS
   - MUST CHANGE FORCE OR DISPLACEMENT OF SENSOR
2. Draw your ideas
   - EACH PARTNER MAKES ONE DRAWING
3. Get approval from Mr. Bregar/Kirsch
4. Head to the shop for construction