# Rube Goldberg Machine:
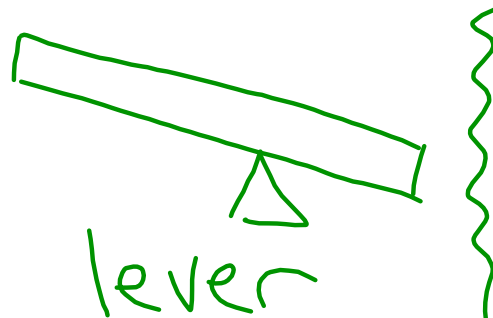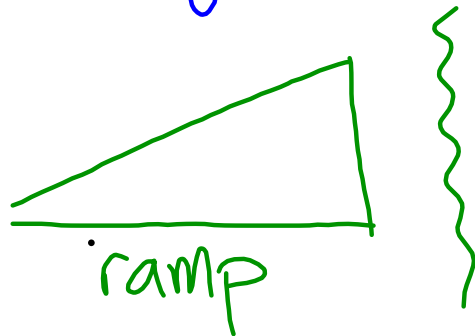
- Contraption — it does a job extremely inefficiently

- Motion & forces

- Required:     Simple machine:

ramp     lever     pulley

# Requirements:

- At least one of each simple machine (ramp, lever & pulley)
- Five total simple machines
- Accomplish ... something
- Fits on a platform 16" × 18"
- No more than ~18" tall
- Works reliably
- Arduino
  - Start your contraption (fan)
  - Signal end with an LED

# TODAY:

- Work on ramp, lever, pulley
  $(\frac{1}{2}\,hr)$　$(\frac{1}{2}\,hr)$　$(\frac{1}{2}\,hr)$

- ✓'d for the shop?
  → work with real materials
  → Show Mr. Kirsch each machine

- Not ready for shop?
  1. Check Pinnacle to see what you're missing
  2. Missing contract/glasses:
     Call, text, and e-mail someone at home
  3. Design a ramp in SolidWorks