



Lilo Heinrich 9/23/19

hope to learn: ① what geometry works best for my kangaroo leg:

- top part inside → 
- top part outside → 

② what length to make the top & bottom & where to pivot

what I did: ① created a rough prototype out of euca board, wooden dowels, rubber tubing, and zipties

② added extra holes every few cm to allow adjustability

what I tested: ① tested different parts configurations

② tested where is best to attach the rubber tubing for max stored energy

what I learned: ① I learned that using little bits of rubber as "collars" for my "axles" (wooden dowels) is very effective

⑥ I learned that keeping the top part on the outside allows it to fold down farther, storing more energy

② I learned that the lowest setting on the top part and the farthest in setting on the bottom part works best to stretch the rubber tubing the farthest, storing the most energy

③ I learned that having two pieces parallel to the ground to support the hopper is most stable, but that the "axles" in the middle cause the two pieces to be able to twist apart. I should use pressure fit on the real version

④ I learned that I definitely need some kind of material to increase friction on the bottom of my hopper

⑤ I learned that I should weight the top part heavier so that there is more moving mass when it is triggered