



2/9/2024 Ideas on what we should build

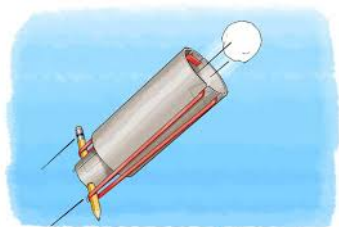


A Trebuchet just like one that Sean built for his AP physics one project.

A catapult.

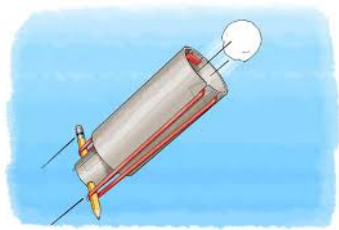


A tube where the ball fits and behind it there's something that pushes it like some sort of cannon /grenade launcher like contraption
(Something like this)



3/1/2024 Which launcher we're gonna use

The tube design might be the best option because it can allow us to accurately aim at the target and control how far. The ball is around 63mm. The design will need tubes, springs, a tripod like thing, and a triggering mechanism.



Launchers not selected for pretty obvious reasons aka its most likely what people would chose like the trebuchet



Or something like the catapult which I do believe is a simple design that most would chose as well



3/8/2024 Material and trigger design

Materials needed:

1. 68.9mm tube w/ hole 104mm from end of tube
2. Compression spring
3. Rubber band or a tough string
4. Metal rod
5. Tennis ball

The idea we have for the trigger mechanism is to drill a hole in between the tube so a little rod can go in and be pulled by a string.

4/16/2024 New Design Approach

We thought that the tube idea was too complicated, so we decided to go with the trebuchet design.

4/22/2024 - New trigger mechanism

We decided to have a ratchet tie down ropes to work as our trigger mechanism. This would allow us to adjust the power and distance of the launcher. I might get it tomorrow morning.



4/24/2024 Final design and trigger

The final design concludes the brick permanently attached to the board and a pin tied to a fishing line where it gets pulled.



4/26/2024 Testing and calculating

For the first platform, we simply aim for it. For the second platform, we need about 4 wood bricks. For the last one, we need around 2-3 bricks.

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Describe the steps/challenges you are working on. Make sure you describe how you set up the experiment, how you executed it, and all the materials you needed to do it. Spend time writing your "reflections". Sometimes more important than the actual results, are your thoughts on "why" and "how". Here is where you accurately describe both the success and failures.

If you make mistakes in the data collected, document the mistake and highlight it with a comment, so you don't lose the work. Don't just delete it. Where did you get stuck? A detailed description of issues you got stuck on or did not understand.

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min



<Date> <Title - Daily/Weekly "Blog" Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals...25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

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