

The egg drop



Ms.Broughton
4 Grade

Ask

What problem am I trying to solve?

Criteria

(How will I know if it is successful?)

Stay longer than one second.

Constraints

(What resources are limited?)

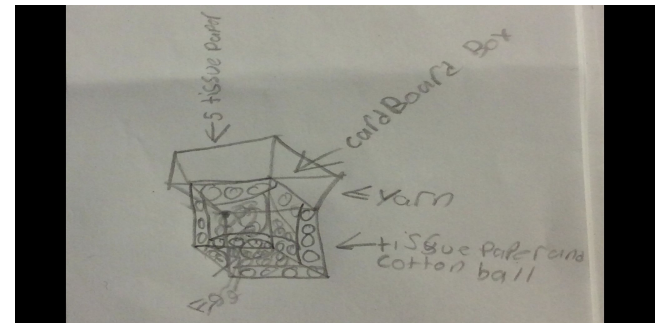
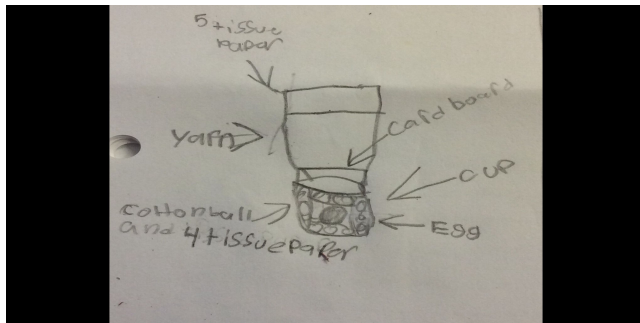
.Time
.money

(Include any research about this problem, including how others have solved it)

Imagine

Include at least 2 ideas for solving the problem

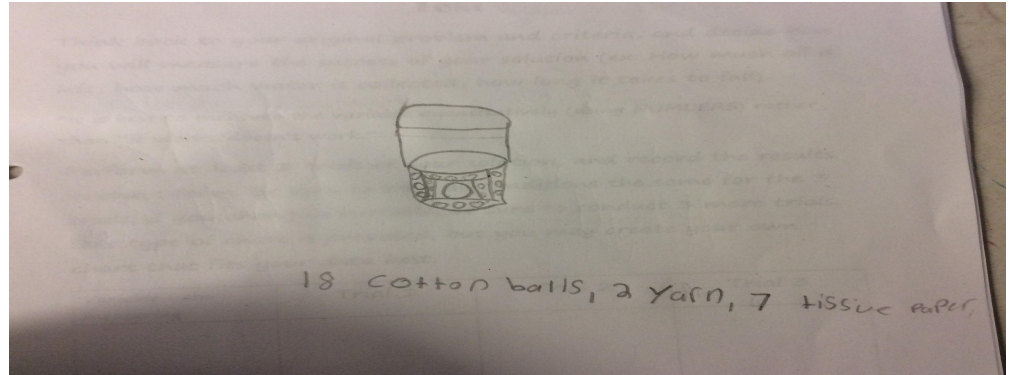
If applicable, research how well certain materials or shapes work (maybe by testing them yourself)



Plan

Draw or list the steps for exactly how this will be created. Be specific – label all materials, measure how much will be needed.

18 cotton balls, 2 yarn, 7 tissue paper



Create

Record how your solution was created (sketches or photos are a good way to do this)

I am going to use 18 cotton balls, 2 yarn, 7 tissue paper.

Test

Think back to your original problem, and decide how you will measure the success of your solution.

Perform at least 3 trials, and record the results in chart form. (One chart is provided, but you may create your own to fit your data best).

Variable I am measuring:	Trial 1	Trial 2	Trial 3
I timed it by seconds.	1	4	1

Improve

- *What steps did I take to improve the solution?*

I put more cotton balls.

- *How did I use my test results to make changes?*

I put more tissue paper so it can stay longer in the air.

- *How well did my solution solve the problem, based on the original criteria?* It went well because it went 4 seconds.

- *What other ideas do I have for improvement, if I were to attempt this design again?* I will put more materials.