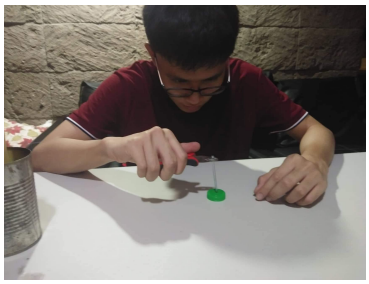
Nathaniel Rae Y. Marquez
10-Hubble

Activity 1

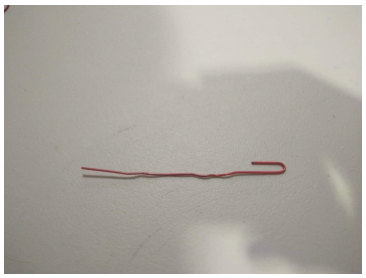
Documentation

Step 1

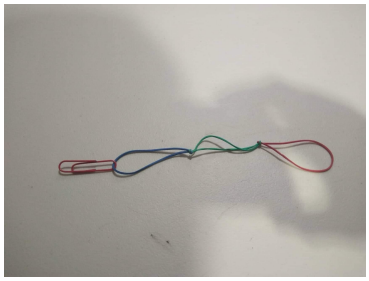


Step 2

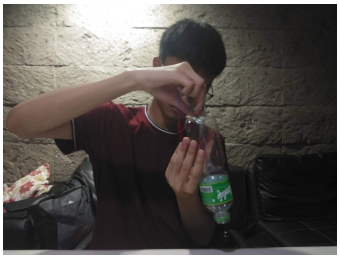
Step 3



Step 4



Step 5




Step 6


Step 7


Guide Questions:

1. **What is your feeling while doing the activity?**

- I felt satisfied with every step being done in this activity.

2. **What are the factors that help you to do the task accordingly?**

- The instructions helped me do the next steps properly and also having the right materials made it easier for me to each and every single step in this activity

3. **If you would have the opportunity to change or add any material in this design to improve your racer, What material would that be and why?**

- I would probably change my bottle to a bottle with a much flatter surface so that it won't get stuck.

Activity 2

Water bottle racer rubber band wind up	Distance (Inches)
25 Turns	54.72 in
35 Turns	57.48 in
45 Turns	70.47 in

Documentation

Guide Questions:

1. **Which among the turns of the rubber bands ended up the farthest and the nearest distance traveled? Why?**

- 45 turns ended up being the farthest distance since it traveled 70.47 in, compared to turning it 25 times, which ended up traveling a distance of 54.72 in.

2. **What is the relationship between distance traveled by the bottle racer and the number of turns in the rubber band?**

- With the results I have gathered, I can safely say that if there are more turns in the rubber band, the distance traveled by the bottle racer would increase.

3. **If you were to add or change any material to your bottle racer to travel further what would that be and why?**

- I would want to increase the friction of the bottle racer with the floor to prevent slips and slides that would decrease the distance traveled, so I think I would stick sandpaper at the sides of the bottle.