Non-stop Water Fountain
No Electricity

6th Grade

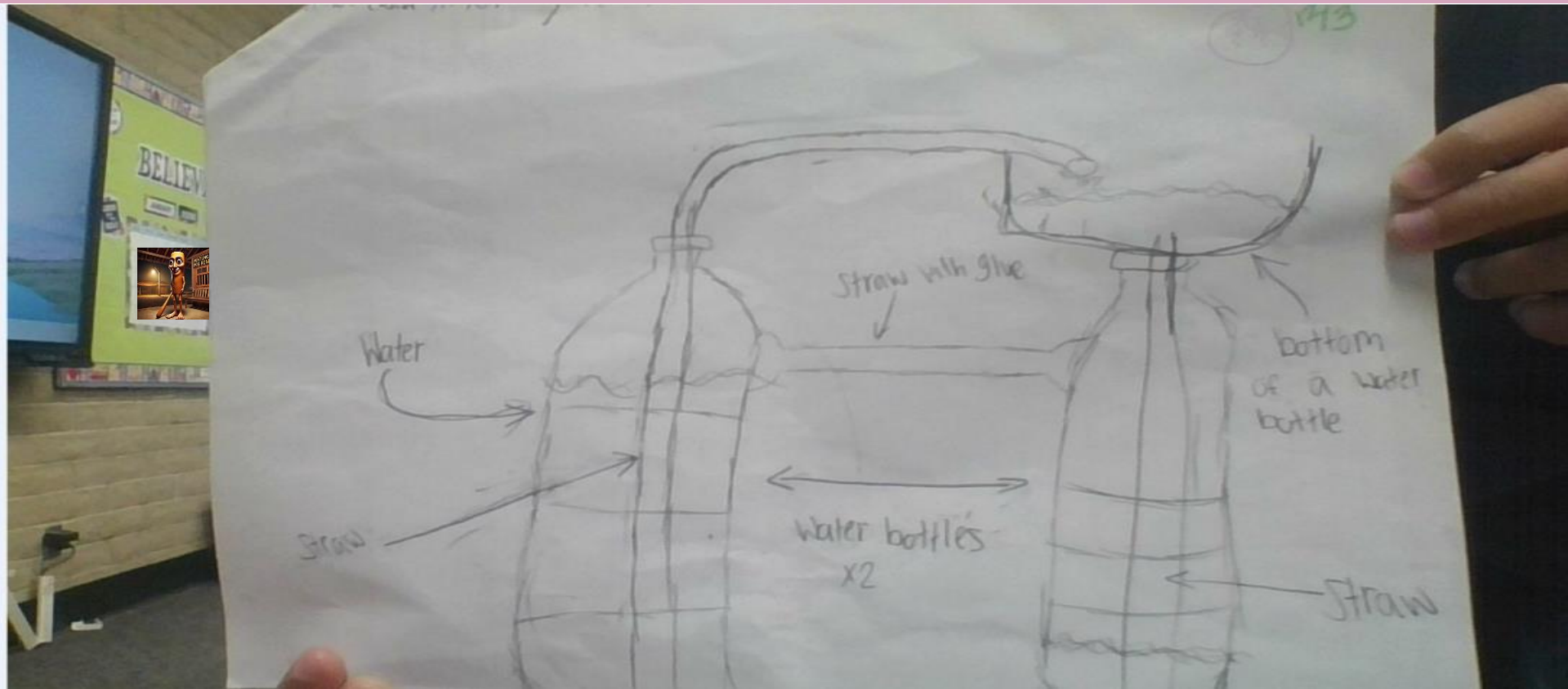
Background

Our water fountain is supposed to cycle water over and over again.Then we put different drinks in the bottle. It will keep cycling over and over. We could also put a little cup under to get drinks. But we will have to refill it once it gets dirty.

Problem

There is not enough fresh water for people in tucson.For example the colorado river has chemicals like PFA. Also water runoff gets absorbed by the sun to fast.Tucson uses a four-tired drought pre pandas.This is why we will make a automatic water fountain without electricity.

Design


Straw with glue
Water
Straw
Water bottles
x2
Straw
bottom
of a water
bottle

Materials

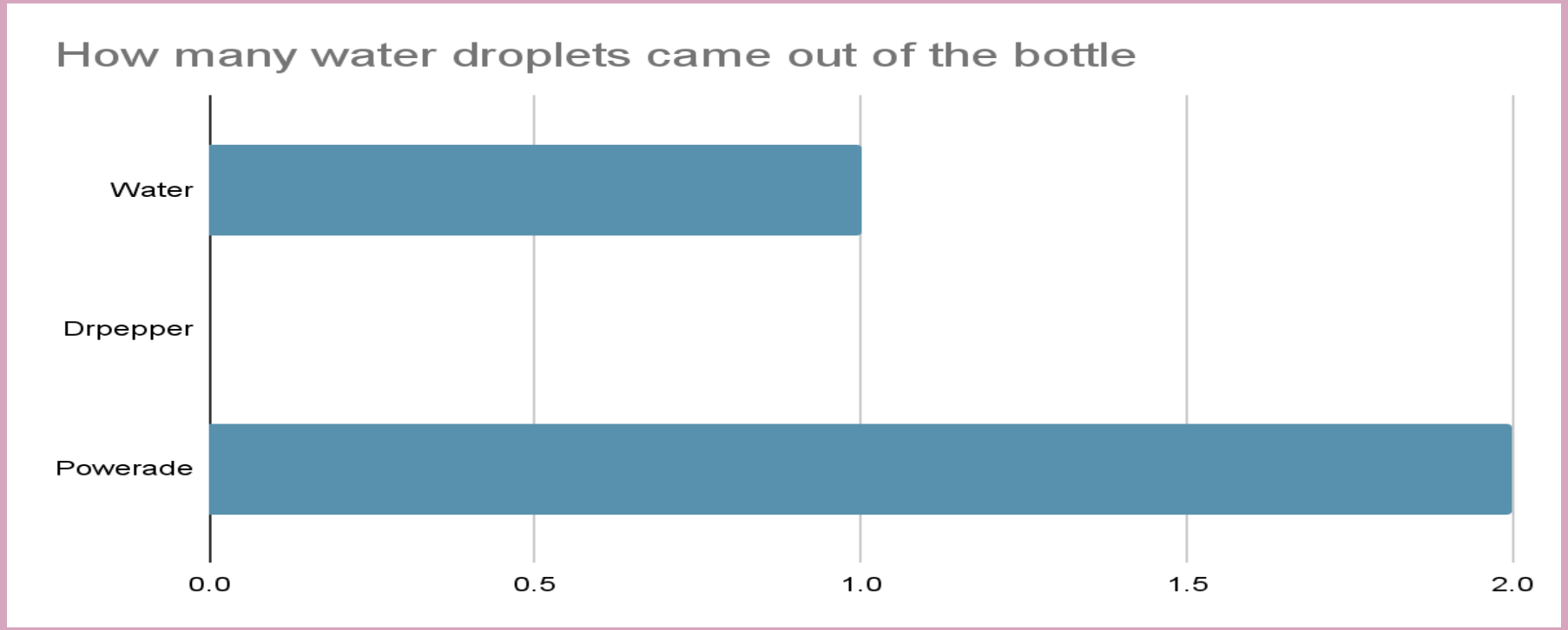
- Kirkland purified water 16.9 FL OZ (1.05 PT) 500ML
- 4 yellow plastic straws
- Hot glue gun 5 sticks of hot glue
- Water out of a water bottle
- Scissors with metal blades

Procedure

1. Get a Kirkland purified water bottle 16.9 FL OZ (1.05 PT) 500ML
2. Make a hole in the cap and on the side
3. Stick a blue straw into the bottle cap that has the hole in the bottle
4. Then cut the bottom part off of the water bottle
5. On the other water bottle I then put it on top of the water bottle of the water bottle
6. On the 3rd Kirkland purified water bottle 16.9 FL OZ (1.05 PT) 500ML
7. Cut a straw into a little piece
8. Then glue them onto each water bottle in the holes

Pictures

Data


How many water droplets came out of the bottle
Water
Drpepper
Powerade
0.0
0.5
1.0
1.5
2.0

Data Explanation

In my data the numbers mean how many droplets came out or if a stream came out of the water bottles. The numbers were all the droplets came out in all. The first test was school water and the second test was dr pepper and the last test was powerade. Then on our last test the hot glue gave out and made a hole.

Pictures of Testing

Observation

There was a hole in the water bottle.I noticed that there was only a little bit of droplets. The water fountain worked for a little bit but over winter break the hot glue gave out and made a hole and there was already a little hole. At first it was working fine until the little hole got bigger. Then it just stopped working.

Conclusion

In conclusion we would change the project that we did. We needed to use less hot glue so the water that got caught and we couldn’t get all of the water and the humidity in the bottle. The humidity made the glue like wet and i accidentally pressed down on it collapsed in. The purpose of the project was to reuse water.