CAN I CATCH WATER FROM THE AIR FOR MY DESERT PLANT?

A Kindergarten Project

MY QUESTION & WHY

My Question:
Which dew trap catches the most water from the air at night?

Why I Did This:
I like plants and I live in the desert. I wanted to help plants drink water without wasting water.

MY PLAN

- **First,** I made 3 dew traps.
- **Then,** I put them outside at night.
- **Next,** I checked them every morning.
- **I did this** for 5 nights.

MY HYPOTHESIS

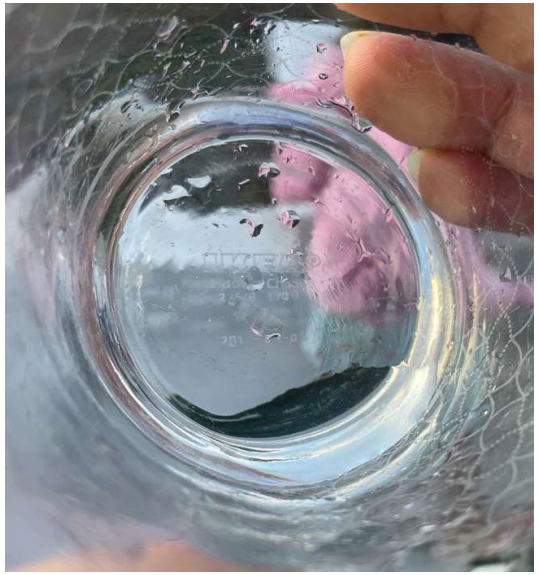
- I think the large dew trap will catch the most water because it has more space for water drops to form.

WHAT I CHANGED AND WHAT I KEPT THE SAME

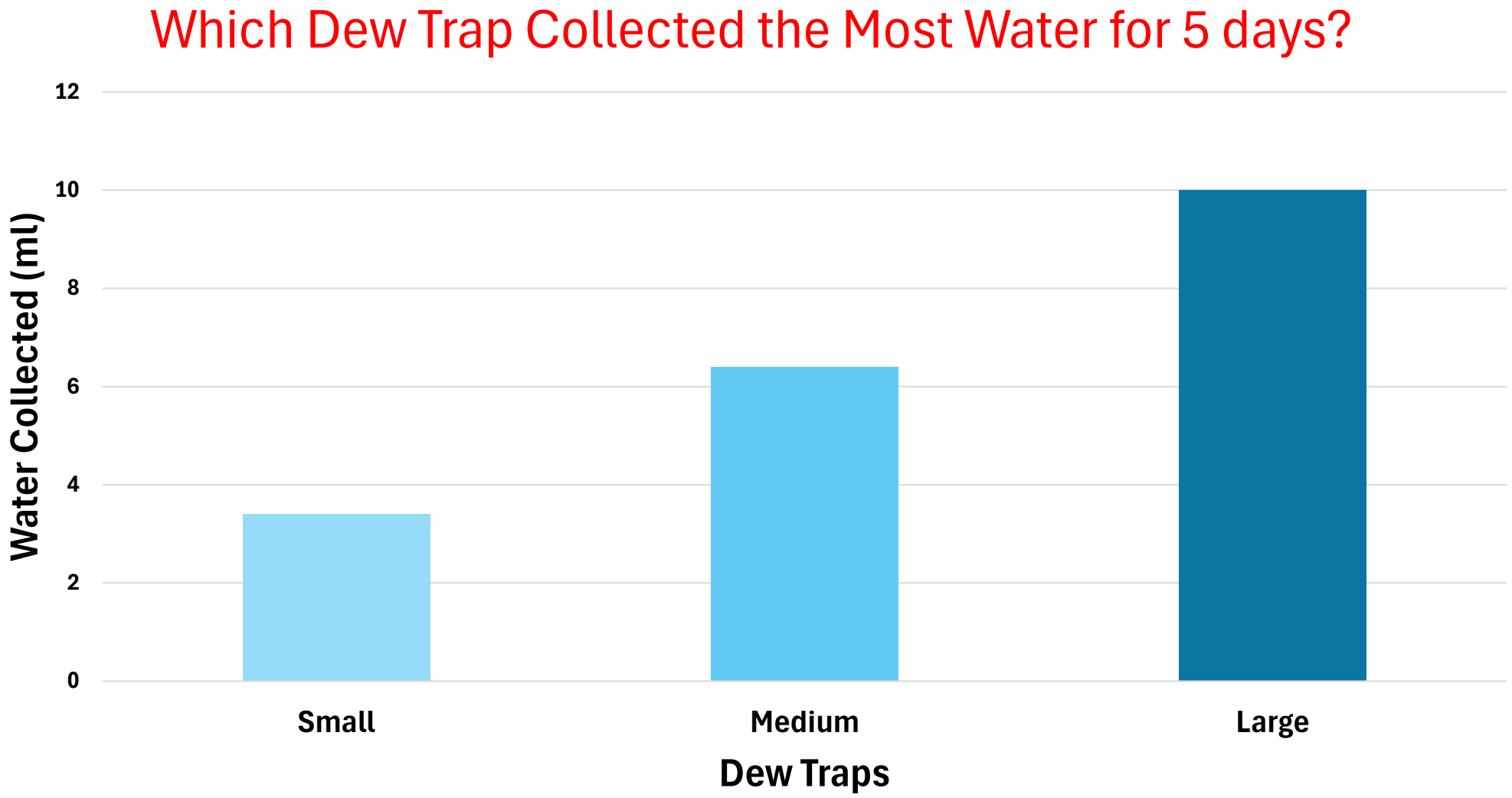
- The size of the dew trap was different.
- I kept them in the same place.
- I put them out at the same time.
- I measured them the same way.

HOW I COLLECTED DATA

- Every day morning, I counted how much water was in each cup with a syringe for each of the traps.



MY RESULTS


Which Dew Trap Collected the Most Water for 5 days?
Water Collected (ml)
12
10
8
6
4
2
0
Small
Medium
Large
Dew Traps

WHAT I FOUND

- The large dew trap caught the most water for 5 days.
- This could help desert plants get water without using a tap.

“I was excited because like my hypothesis the big trap had the most drops!”

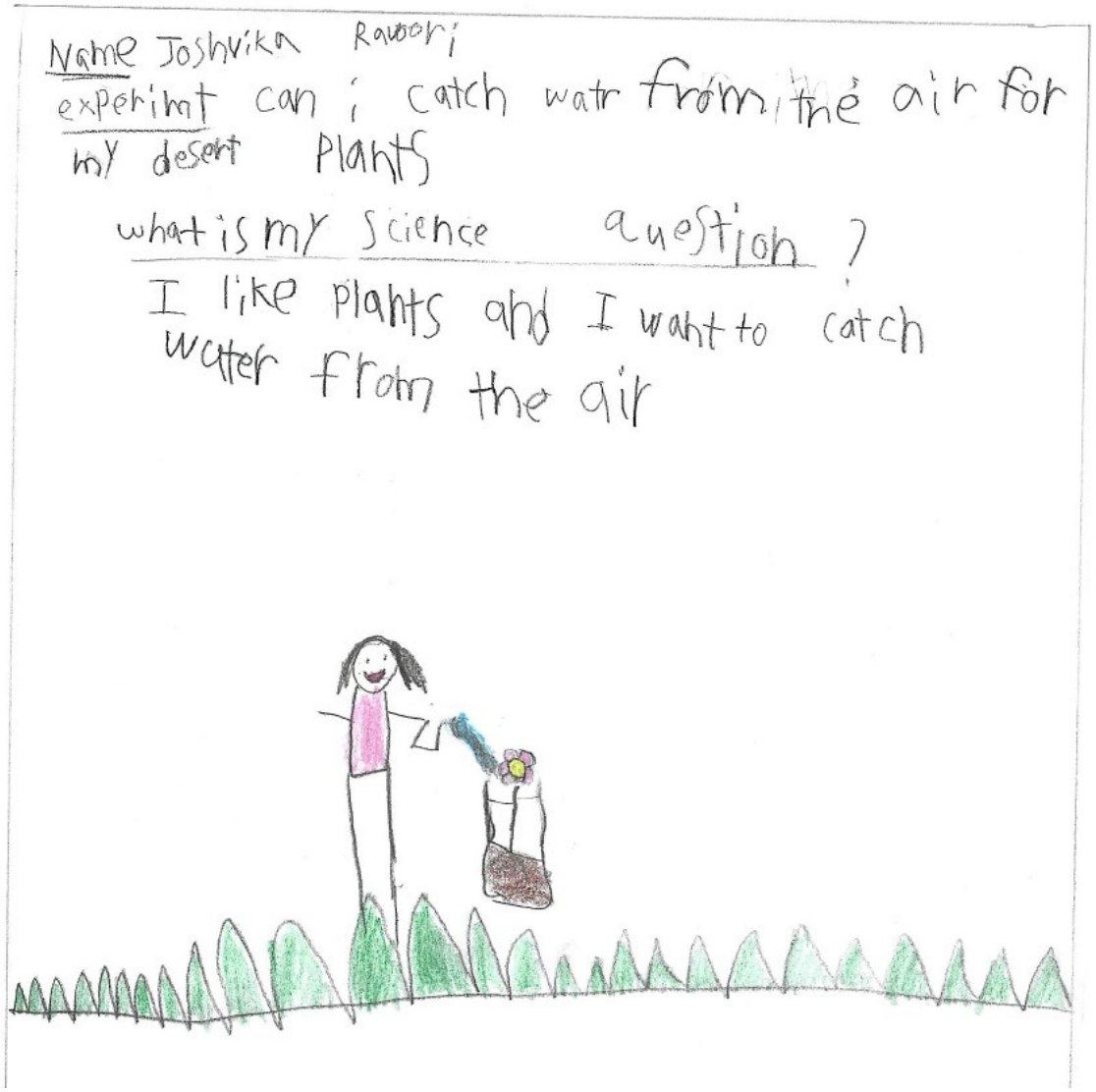
PROBLEMS I HAD

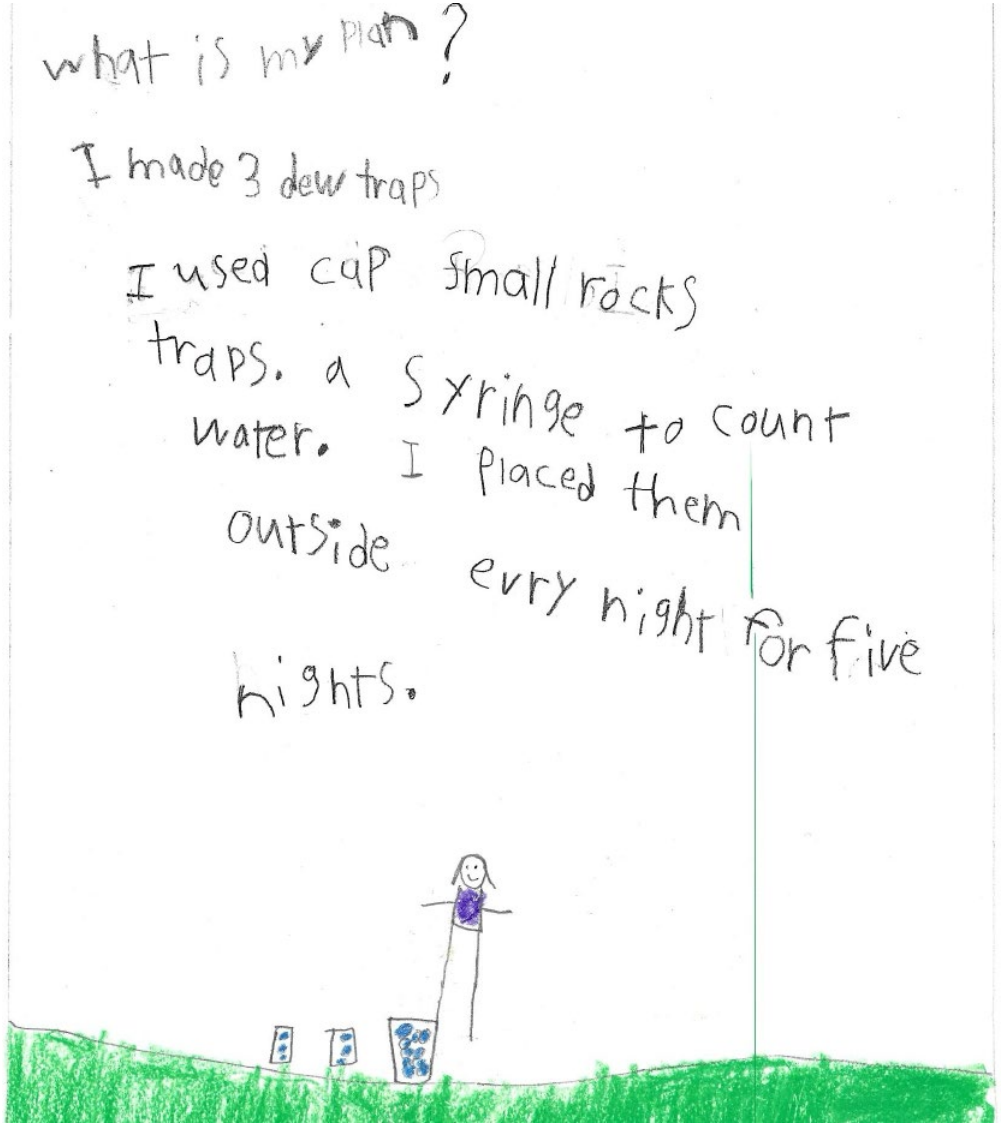
- Some nights had less dew.
- It was hard to collect drop into cup from tarp and measure tiny drops.

WHAT I WANT TO DO NEXT

- Next time, I want to put a real plant under my best dew trap I want to see if they catch more water.

WORKING EXPERIMENT NOTES





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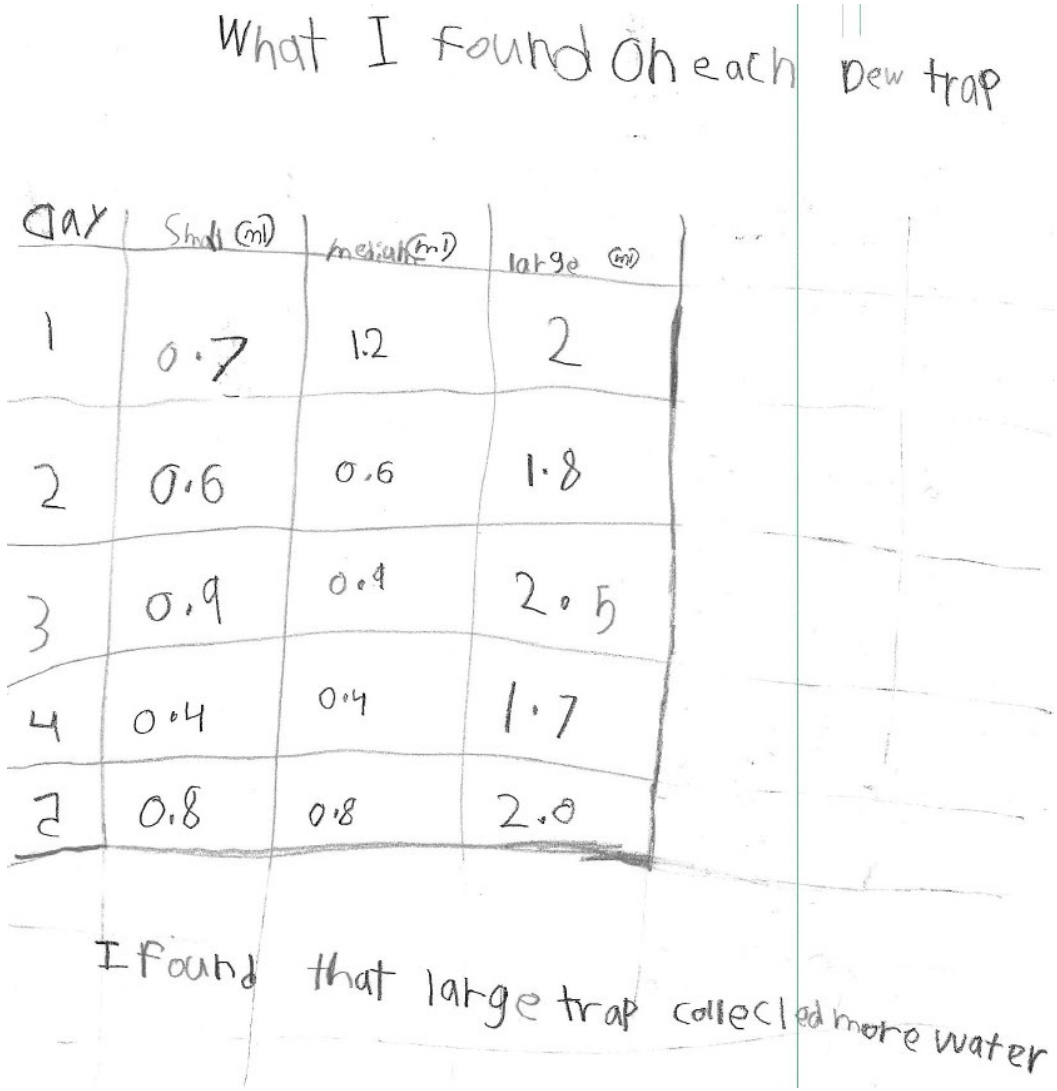

What I found on each Dew trap

Day	Small (ml)	medium (ml)	large (ml)
1	0.7	1.2	2
2	0.6	0.6	1.8
3	0.9	0.9	2.5
4	0.4	0.4	1.7
5	0.8	0.8	2.0

I found that large trap collected more water