

Logbook for Science Fair 2021

Jan 24

I picked my project for CYSF. I was inspired by my mom's sink. Actually.

- My mom is a baker. She uses litmus paper.
- Ding ding ding!
- I will be testing pH.
- Let me think about the deeper components.

Brainstorm

4 substances

Milk, Pepsi, Lemon, Tap Water

3 trials. Research on pH

Jan 25

I researched what could test pH. I discovered drops, meters and litmus paper.

- I decided to use a meter.
- My mom bought one.
- I did some research.
- I did some research on pH.
- I started with the basics.
- pH is a scale from 1 to 14. It tells you how acidic or basic a substance is. If it's below 7, it's acidic, and above 7 is basic.
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- Combining acid and base will result in a chemical reaction.
- Example: baking soda (base), vinegar (acid).
- Result: expansion.
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- Acidic substances have higher quantity of Hydrogen ions. Basic substances have less Hydrogen ions.
- pH stands for potential of Hydrogen.

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- Terms:
- Acidic: a compound that has low potential of hydrogen. Not basic
- Basic: a compound that has high potential of hydrogen. Not acidic
- Alkaline: Basic. e.g., alkaline batteries = basic batteries.
- That's just about all I need.

Jan 30

My meter arrived. Finally, I can do Trial 1.

Hypothesis. I predict milk will be most basic and lemon juice most acidic.

Results.

Lemon	Pepsi	Milk	Water
4.97	5.08	6.73	6.34

Feb 3

I have worked on my slideshow.

- I did Trial 2.

Lemon	Pepsi	Milk	Water
5	5.38	6.72	6.72

Feb 7

Trial 3

Lemon	Pepsi	Milk	Water
5	5.03	6.74	6

I finished my slideshow.

Time to write a report.

Report link:

<https://onedrive.live.com/edit.aspx?action=editnew&resid=6E87D1814415D13B!1305&ithint=file%2cdocx&action=editnew&wdNewAndOpenCt=1614458223389&wdPreviousSession=42c7afd2-19fd-4f2b-b814-bd261e207b51&wdOrigin=OFFICECOM-WEB.START.NEW>

Feb 10

I am finished my report.

Feb 25

Accepted CYSF invite. Did most of project.

Feb 27

DONE!