

What's In Your Water?




M7-7
CHEMISTRY

A decorative network diagram in the top right corner, consisting of various sized circles (nodes) connected by thin lines (edges). Some nodes are solid grey, while others are hollow white with a grey outline. The connections form a complex, branching structure.

Question

What store bought water, or tap water has the most alkaline in it?

A decorative network diagram in the bottom left corner, similar to the one in the top right, featuring a mix of solid and hollow nodes connected by lines.

Abstract


The purpose of my project was to find the amount of alkaline in “cheap” or name brand waters and seeing which one has the most. I would test several different waters (including Zephyrhills) by putting them into different cups and using a pH water tester. My hypothesis was that Zephyrhills would have the most alkaline in it compared to Voss, Penta, Poland Spring, and tap water. (results and conclusion needed)

Hypothesis

If Zephyrhills has the most amount of alkaline in it, then it would be healthier to drink instead of others because it would turn green, blue, or purple when the pH tester is added. I expect this to happen because Zephyrhills has said on their website that they get their water from five different Florida springs. Fresh water is health for your body, so I think the amount of alkaline is 8 or 9.



Materials

- Different water bottle brands: Zephyrhills, Voss, Poland Spring, and Penta
 - Tap water
 - 20 small cups per water brand (100)
 - pH water tester
 - Paper and pencil for labeling
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Procedure

1. Label the cups so you won't mix them up
2. Pour the different water brands (including tap water) into the small cups, pour 50 ml into each one
3. Take the water tester and squeeze on drop into each cup of water
4. Watch the water change colors
5. Take note of which waters changed which color
6. Find the water brand that has a pH level higher than the rest (usually blue or purple)
7. Find the water that has the least pH and record
8. Find water that has neutral pH level or 7 and record




Procedure

Variables:

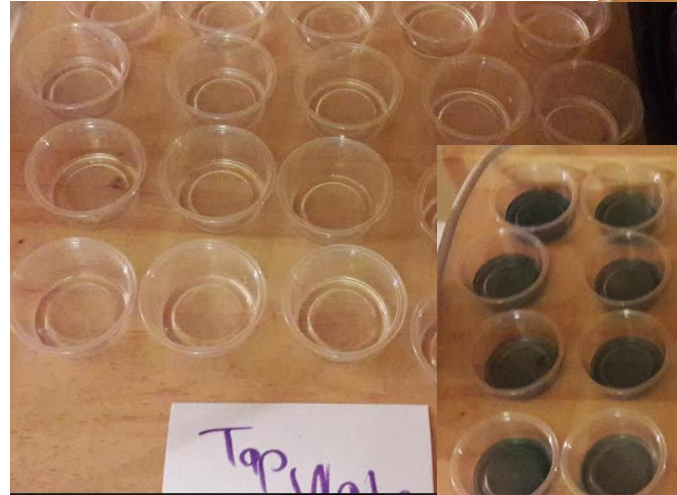
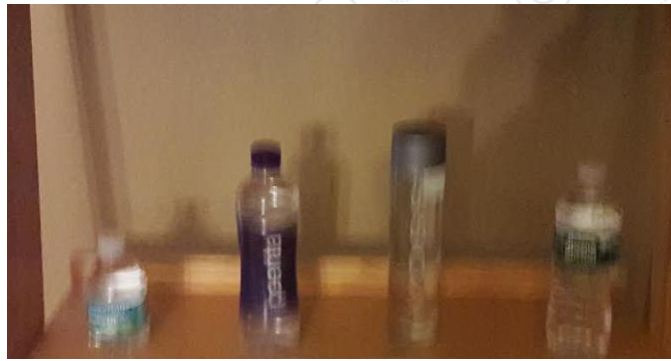
Independent variable- the kind of water itself.

Dependent variable- the pH level of the water.

Constant variable- the amount of water poured into the cups and amount of cups.

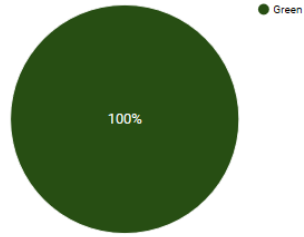


Experimental Pictures

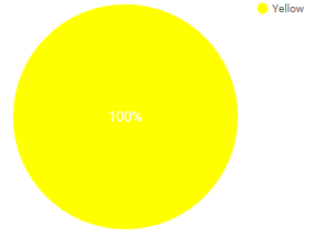


Results

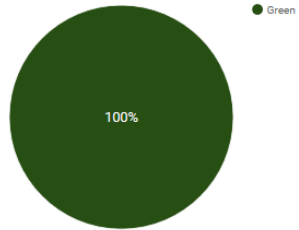
Zephyrhills



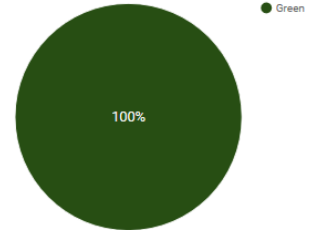
Voss



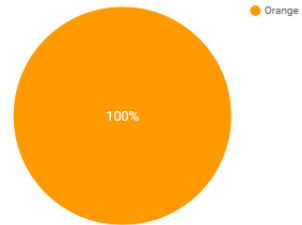
Poland Spring



Tap Water



Penta



Conclusion

It turned out that Zephyrhills does not have the most amount of alkaline in it, but one of the best. Tap water and Poland Spring turned out the same way. All expensive waters have acid in it.

Resources

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