

A high-speed photograph of a water droplet hitting a surface, creating a series of concentric ripples. The droplet is captured mid-air, just above the point of impact, with a small crown-like shape forming at the base. The background is a solid, deep blue color.

# Water Testing

3rd Grade - 3M

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# Water Testing - Overview

I want to collect water from different places like my house, office, lakes, a park pond nearby and the pool where I go swimming.

I want to understand how different they are with a water test kit.





# Procedure:

1. Put on Gloves and eye glasses
2. Get a clean container
3. Get water sample
4. Close container
5. Get testing strip ready
6. Put small drops of water in each of the squares in the strip
7. Wait 30 seconds
8. Compare results against chart
9. Record the results in my notebook



## Background:

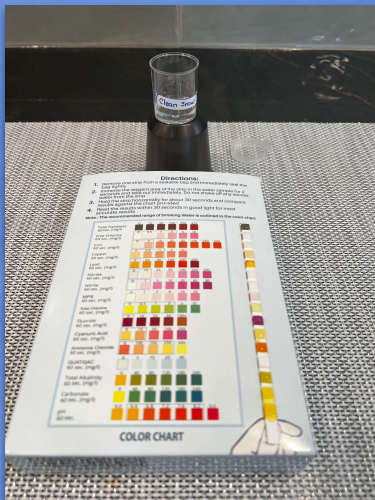
I chose this project because I wanted to learn more about helping the planet we live in.

I found out that about 70% of earth is water and 70% of humans are H<sub>2</sub>O

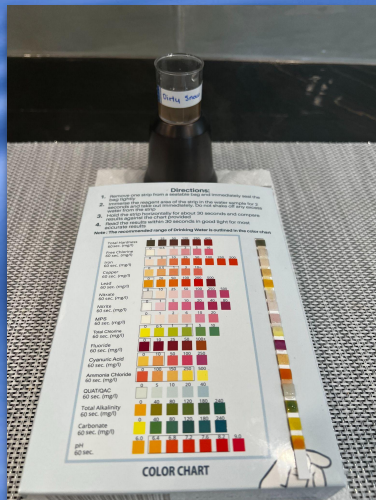
So water is important for humans, animals and plants to live and it is important that is clean, that is why I wanted to test it.



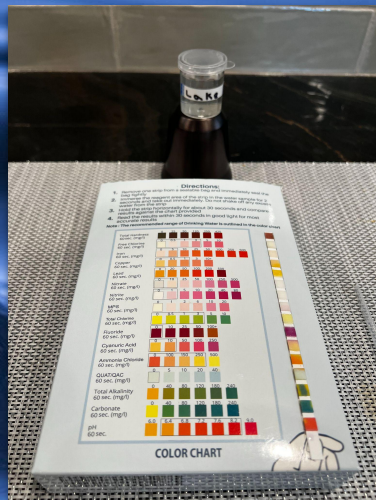
# Data and Identification:



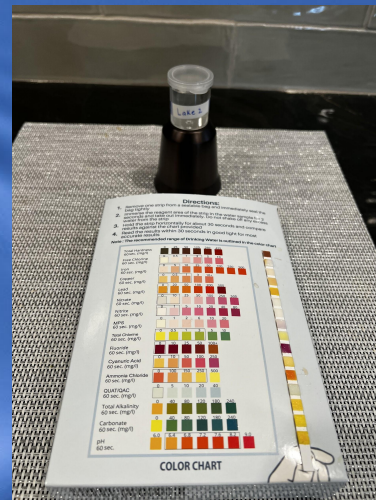
Clean  
Snow



Dirty  
Snow



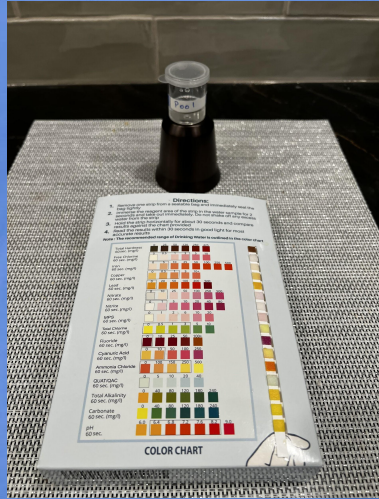
Lake 1



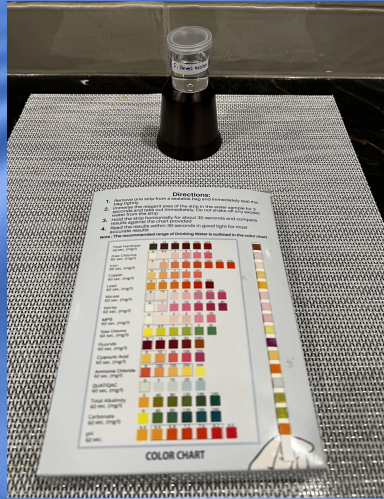
Lake 2



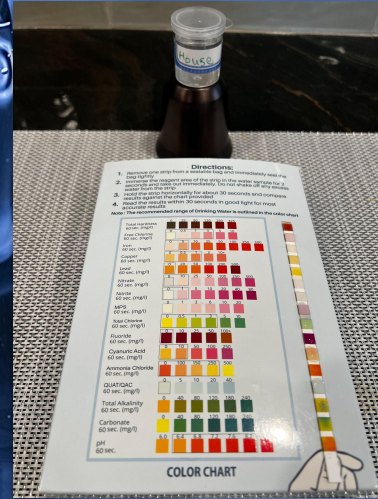
# Data and Identification:



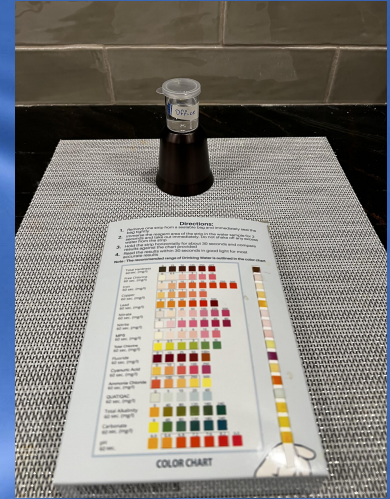
Pool



Filtered  
Water



House



Office

# Data and Identification:



Component	Recommended	Clean Snow	Dirty Snow	Lake 1	Lake 2
Total Hardness	NRR	0	425	250	50
Free Chlorine	0 to 3 mg/l	0	0	0	0
Iron	0 to 5 mg/l	0	0	0	0
Cooper	0 to 1 mg/l	0	0	0	0
Lead	0 mg/l	0	0	0	20
Nitrate	0 to 10 mg/l	0	0	0	0
Nitrite	0 to 1 mg/l	0	0	0	0
MPS	NRR	1	2	1	6
Total Chlorine	0 to 3 mg/l	0.5	0.5	0.5	0
Fluoride	0 mg/l	0	10	0	10
Cyanuric Acid	0 to 10 mg/l	0	0	0	0
Ammonia Chloride	0 to 250 mg/l	0	0	0	0
QUAT / QAC	0 mg/l	0	0	5	10
Total Alkalinity	NRR	40	120	40	0
Carbonate	NRR	0	0	180	0
pH	6.4 to 8.2 mg/l	6	6.4	7.6	6.8

NRR: No Recommended Range

Values above the recommended range are highlighted in red



# Data and Identification:

Component	Recommended	Pool 1	Filtered Water	House	Office
Total Hardness	NRR	150	250	425	5
Free Chlorine	0 to 3 mg/l	0.5	1	1	0.5
Iron	0 to 5 mg/l	0	0	0	0
Cooper	0 to 1 mg/l	0	0	0	0
Lead	0 mg/l	0	0	0	20
Nitrate	0 to 10 mg/l	25	10	10	25
Nitrite	0 to 1 mg/l	0	1	0	1
MPS	NRR	6	6	10	10
Total Chlorine	0 to 3 mg/l	0.5	0.5	3	0.5
Fluoride	0 mg/l	10	0	0	0
Cyanuric Acid	0 to 10 mg/l	0	0	0	0
Ammonia Chloride	0 to 250 mg/l	0	0	0	0
QUAT / QAC	0 mg/l	0	0	5	0
Total Alkalinity	NRR	0	40	40	5
Carbonate	NRR	0	0	40	0
pH	6.4 to 8.2 mg/l	6	6.8	6.8	0

NRR: No Recommended Range

Values above the recommended range are highlighted in red



## Conclusion and Reflection:

A high-speed photograph of a water droplet hitting a surface, creating a crown-like splash with concentric ripples spreading outwards. The background is a solid blue color.

I found out that you can test water to make sure is safe for all living things who need it.

Is really important to filter water to drink it, if is not clean you can get sick.

I was surprised that the house water had one part that was not safe to drink. And that the pool water is not really safe to drink.

I want to continue testing water, maybe next time I will collect water from a friends house, lakes and rivers farther away.

We can help to maintain water clean by not littering and always keep the trash in the trash can to avoid pollution.