



The Green Dog

Green algae grows in water and can make the water look green. Sunlight helps algae grow, so a fishbowl near a window might grow algae faster than one placed away from a window. If algae grow on your fishbowl, you'll want to clean the bowl. But algae aren't all bad. Tiny sea creatures eat algae found in ponds, streams, and lakes.



WATER SAMPLES

Supplies:

- 6 clear jars each with a lid or cap
- coffee filters
- elastic bands

1. Go on a nature walk with an adult. Keep a lookout for small streams, puddles, ponds, or fountains.
2. Collect samples of water from 3 different areas. Put each sample in a small, clear bottle or container. As you collect water, see if you notice algae.

Adult supervision required: Only go near bodies of water with adult permission. Follow all trail markers and expert guidance to stay safe when exploring nature!

3. When you return from your nature walk, look carefully at the water. Record your observations.
4. Place a coffee filter over another jar and secure it around the edge with an elastic band. Carefully push the coffee filter into the jar to create a slight dip, then pour the water sample into the jar through the filter.
5. Observe the water and what is collected in the filter. Record your observations.
6. Remove the old filter and secure a clean filter on the now empty jar. Filter the water for a second time, again observing the water and what is collected in the filter.
7. Repeat for each sample.



Samples and where they were collected

Sample 1

Sample 2

Observation:

1. What do you notice about the water you collected?

2. What do you notice about what's left in the filter?

Observation after filtering once:

1. What does the water look like?

2. What did you notice in the filter?

Observation after filtering twice:

1. What does the water look like?

2. What did you notice in the filter?

Samples and where they were collected

Sample 3

What can you infer about all of the water samples you have collected and filtered?

Observation:

1. What do you notice about the water you collected?
2. What do you notice about what's left in the filter?

Observation after filtering once:

1. What does the water look like?
2. What did you notice in the filter?

Observation after filtering twice:

1. What does the water look like?
2. What did you notice in the filter?

