

WATER QUALITY TESTING WORKSHEET

Grades 6-8 Hyatt Lake

Watch the videos and follow instructions for filling out this worksheet!

Write or **draw** about a body of water that you have a memory of from sometime in your life. Where were you? What animals and plants live near there? Were you with family, friends, or alone? Were you doing anything?





After watching video number 2 of 5, go back to watch the drone footage in the intro video, and make some observations of Hyatt Lake:

Write or **draw** what you notice. For example:

- a. Describe the water (for example look for color, clear or cloudy, windy or calm).
- b. What natural objects are there? Trees? Flowers? Grass? Animals?
- c. What human made objects are there? Are there boats? Cars? Is there a dam?

Our question for today is: *Can Hyatt Lake support life for large fish?*

My **hypothesis** is that Hyatt Lake **can / cannot** (circle one) support life for large fish because...



After watching videos 3 and 4, write down the water quality results in the table below:

Hyatt Lake Water Quality Results

pH	Dissolved Oxygen (In ppm = parts per million)

Watch the Parts Per Million (ppm) video found on the Fall in the Field website.

Take time to look at the pH and dissolved oxygen (DO) information sheets to get a better understanding of the two tests, and what the results tell us.

Explain some possible reasons why the lake is either acidic (low pH) or basic (high pH).

Explain some possible reasons why the lake has more or less dissolved oxygen.

Based on the results of the pH and the dissolved oxygen, can Hyatt Lake support life for large fish? **Yes** or **no? Why?** Make sure to **support** your conclusion with evidence.



Do you think that Hyatt Lake can support life for future generations? What can we do to support Hyatt Lake? Give **two** examples.

Apply what you learned!

Go to a body of water (with adult supervision) and make **observations**. If you cannot go to a body of water, look up (on YouTube or Google) the one you remembered from question #1.

Take some time to make observations. Such as, is the water flowing fast or slow? Are there different kinds of plants growing? Is it near a city? Is there wildlife present?

My hypothesis is that my chosen body of water has pH and dissolved oxygen levels that **can / cannot** (circle one) support life for large fish because...

Thanks for exploring with us!