

Lab # ____: Pond Water Organisms

Lab skills: 6, 7, 8, 11, 12, 13, 16, 18, 23

Background: A pond can be described as a small freshwater lake that is less than eight meters in depth. In the shallow, quiet water of a pond, sunlight penetrates all the way to the bottom. Plant roots are scattered all over the bottom surface – some plants live entirely submerged, and some, like water lilies, send their leaves and flowers upward to float on the surface. Other plants and tiny, plant-like organisms float about, on or near the surface, thriving on the sunlight they receive. Cattails stand tall along the edges, crowded together and forming hiding places for many birds and other animals. On other parts of the shore trees and shrubs lean out over the water, dropping leaves, pollen, seeds, and fruit depending on the season. The abundant plant life furnishes food to many smaller organisms that live on, in, or near the plants, grazing on them in much the same way cattle grazes on grass and hay. Other organisms live in the water feeding on the grazers.



In this lab, compound light microscopes will be used to examine pond water samples. We will distinguish between nonliving materials and living or once living cells and tissues of various organisms. Hopefully we will see all sorts of interesting aquatic life forms! We will also practice making some microscopic measurements.

Hypothesis: We think that... (tell me if you think there will be interesting creatures living in pond water or not.)

Procedure:

Part 1 – Identification of Aquatic Organisms

1. Scoop up some pond water into a Petri dish. **Look closely at the pond water and describe what you see.** You may use a magnifying glass to magnify things a little bit. Try to locate and then identify the living and nonliving matter in your Petri dish.
2. Using a transfer pipette, take a sample of the pond water and put about two drops onto a concave depression slide. Place a cover slip over the depression and examine the slide at low power. **Report what you observe for this step.**
3. Scan the slide for any living organisms. **Try to find 4 living specimens from your pond water sample and make detailed sketches of what they look like in boxes on your answer sheet that look like the ones below.**
 - a. Draw one organism per box!
 - b. If a specimen appears to be large, sketch it at low power.
 - c. If a specimen appears to be small, sketch it at medium or high power.
 - d. Use the reference sheet attached to this lab report to find the proper name of as many organisms as possible. Write the names of the organisms that you can identify in the boxes. If you can't identify an organism then label it "UNIDENTIFIED."
 - e. Include the magnification at which the organism was viewed in the boxes as well.

Organism 1	Organism 2	Organism 3	Organism 4
Name: _____	Name: _____	Name: _____	Name: _____
Magnification: _____	Magnification: _____	Magnification: _____	Magnification: _____

4. Save your slide for later use!!!

Part 2 – Making Microscopic Measurements

4. Hold the clear plastic ruler under the field of vision of the microscope (without a slide).
5. Identify the mm marks along the edge of the ruler by focusing at low power.

Lab Answers For Organisms In Pond Water

Ying-Ying Zheng



Lab Answers For Organisms In Pond Water:

Energy Research Abstracts ,1992-04 **ERDA Energy Research Abstracts** ,1983 **Milkfish Bibliography A**
Compilation of Abstracts on Milkfish Studies , Selected Water Resources Abstracts ,1988 **Investigations in**
Fish Control ,1978 **Sport Fishery Abstracts** ,1967 NASA/ASEE Summer Faculty Fellowship Program ,1996
Report summaries United States. Environmental Protection Agency,1983 **Biology** Jake Bernstein,1996 Basic
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your course caters to pre health professional students microbiology majors or pre med students everything they need for a
thorough introduction to the subject of microbiology is right here **Marine Research** ,1969 *Marine Research, Fiscal*
Year 1968 National Council on Marine Resources and Engineering Development (U.S.),1969 **Environmental Education**
Compendium for Water Resources ,1996 **Selected Water Resources Abstracts** ,1988 **Radioactive Fallout**
,1965 *Homeschooling High School* Jeanne Gowen Dennis,2004 Homeschooling High School 2nd Edition Planning Ahead
for College Admission gives you the tools you need to design a solid high school program that both maximizes educational
freedom and leads to successful college admission Find answers to your questions about grading scales diplomas entrance
exams scholarships application procedures and much more all while maintaining your family s ideal balance between
autonomy and accountability in your home high school **The Emory-Tibet Science Initiative, a Novel Journey in**
Cross-Cultural Science Education Arri Eisen,Meena M. Balgopal,Gillian Hue,Robin Nusslock,Joel Zivot,2022-05-10
The Philippine Journal of Fisheries ,1951 **Proceedings - Pacific Science Congress** ,1957 Vols for 1st 9th
congresses include full proceedings for 10th partial proceedings for 11th abstracts of papers only Selected papers of
individual symposia of the congresses published separately and in various journals

Reviewing **Lab Answers For Organisms In Pond Water**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Lab Answers For Organisms In Pond Water**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

https://staging.conocer.cide.edu/book/scholarship/HomePages/Famous_Australian_Birds.pdf

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