

## 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

**K Morrison**



## **Lab Answers For Organisms In Pond Water:**

## Decoding **Lab Answers For Organisms In Pond Water**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lab Answers For Organisms In Pond Water**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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