

BIOLOGY



Ms. Von Burg
Ms. Clisby
Ms. Rinaldo

Date: _____

Lab # 5

Lab Title: Identifying Living Things in Pond Water

Name: _____

Lab Partner(s): _____

Name: _____

Lab Partner: _____

Date: _____

Period: _____

Living Environment

Lab # ____: Living Things in Pond Water

Objectives

- 1) To practice making microscope slides and building focusing skills under low and high power.
- 2) to identify and observe several organisms living in a pond.

Materials

Samples of water from different ponds

Microscope cover slips

Small dish

Kim wipes

Dropper for each sample Pond

Organism reference (sheet and book)

Microscope

Microscope slides

Procedure

- 1) Set up your microscope, clean lenses, slides, and coverslips
- 2) Obtain a sample of pond water with dropper and place several drops in a dish. **BE CAREFUL NOT TO USE DROPPERS IN MORE THAN ONE POND.**
- 3) Prepare a wet mount slide by placing a drop of water on a microscope slide and covering it with a cover slip
- 4) Find, identify and sketch an organism. If at first you don't succeed, keep trying. Look under low power first, and then switch to high. **YOU MUST SHOW YOUR TEACHER THE ORGANISM UNDER THE MICROSCOPE AND IDENTIFY IT BEFORE SKETCHING IT.** Make sure you label your sketch and note the magnification.
- 5) During this lab you are to take samples from different ponds, and record the label of the pond.
- 6) Altogether, you should identify, sketch and label 9 organisms. You may sketch 3 in each large box. Be sure to label each organism.

Pond:

LIST THE NAMES OF THE THREE ORGANISMS FOUND AND THE MAGNIFICATIONS USED FOR EACH:

1.

Magnification Used _____

2.

Magnification Used _____

3.

Magnification Used _____

SKETCH AND LABEL EACH ORGANISM

1.	2.	3.
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Pond:

LIST THE NAMES OF THE THREE ORGANISMS FOUND AND THE MAGNIFICATIONS USED FOR EACH:

1.

Magnification Used _____

2.

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SKETCH AND LABEL EACH ORGANISM

1.

2.

3.

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Pond:

LIST THE NAMES OF THE THREE ORGANISMS FOUND AND THE MAGNIFICATIONS USED FOR EACH:

1. Magnification Used _____

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SKETCH AND LABEL EACH ORGANISM

1.	2.	3.
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Analysis Questions: Please answer each of the analysis questions using complete sentences.

1) In studying the pond cultures, why did you keep the samples from different ponds separate?

2) Why were you careful not to mix the droppers between the pond samples?

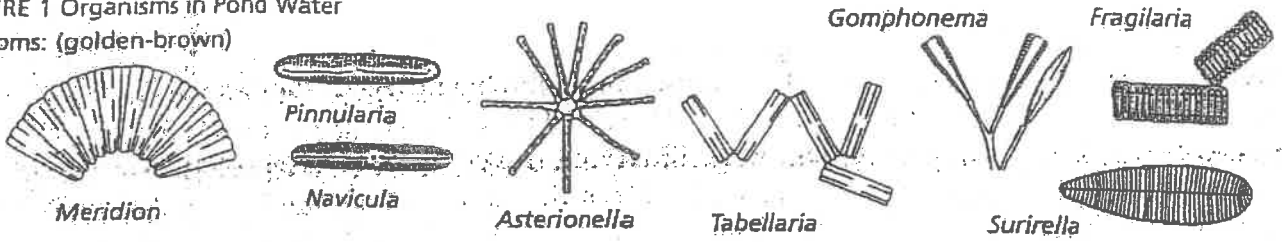
3) Describe any breathing adaptations you saw in animal forms?

4) Did you find it difficult to focus on these organisms? Why?

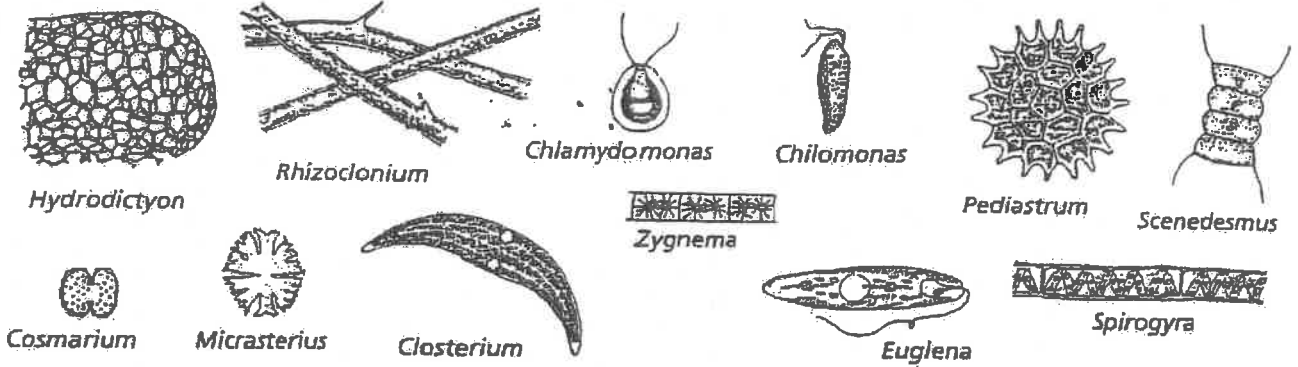
5) What was the most interesting organism you discovered? Why?

FIGURE 1 Organisms in Pond Water

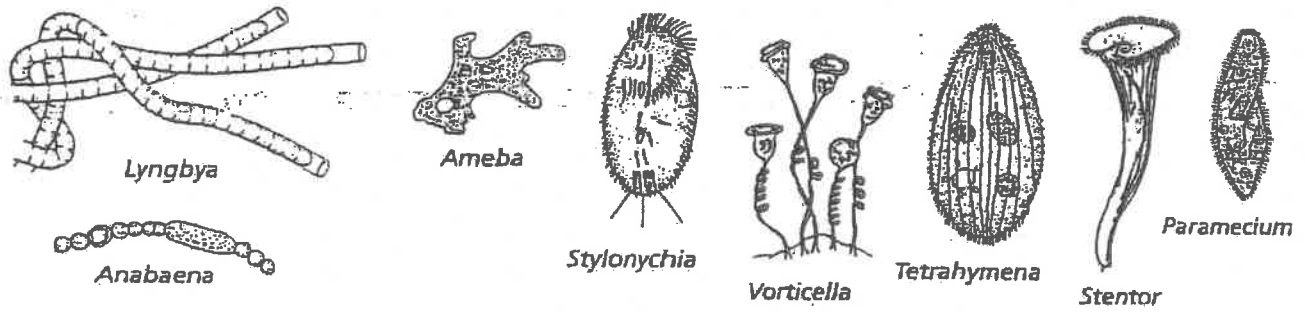
Diatoms: (golden-brown)



Algae: (green)



Single-celled forms, attached or swimming:



Larger organisms:

