

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Lab 2.4.4A Ciliates

**QUESTION:** How do ciliates behave?

**HYPOTHESIS:** \_\_\_\_\_

### EXPERIMENT:

**You will need:**

• paramecium culture

• microscope

• microscope slide

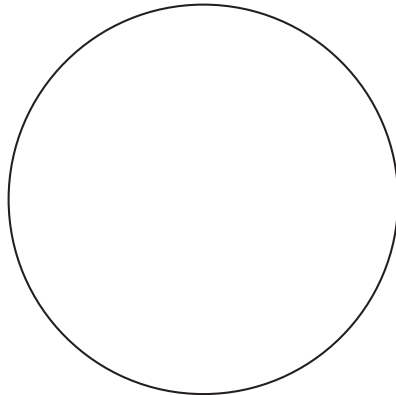
• coverslip

• green algae culture

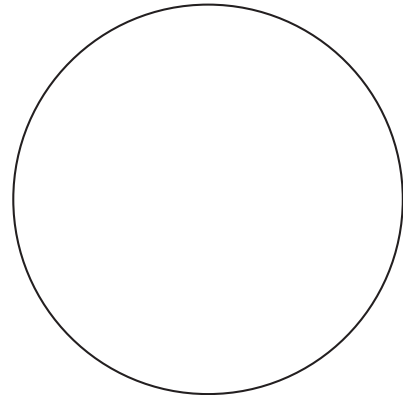
• eyedropper

### Steps:

1. Prepare a microscope slide of the paramecium culture.
2. Slowly move the slide around until you find a paramecium. Observe it under low and high power. You may have to continue to move the slide around to keep it in view since paramecium can move quickly. Reduce light by adjusting the diaphragm in order to see more details.
3. Sketch your observations.



Low Power



High Power

4. Remove the coverslip and add a small drop of green algae onto the paramecium culture. Replace the coverslip and watch the paramecium for 10 minutes under high power. What changes do you observe inside the paramecium? Record your observations. \_\_\_\_\_

### ANALYZE AND CONCLUDE:

1. Look at the labeled diagram of a paramecium in your textbook. List the organelles that you were able to observe. \_\_\_\_\_

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2. Did you observe any organelles on high power that were not observable at low power? \_\_\_\_\_

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3. Describe how the paramecium moved through the water. \_\_\_\_\_

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4. What is the purpose of a paramecium's cilia? \_\_\_\_\_

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5. Describe the process of the paramecium eating green algae. \_\_\_\_\_

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6. What other behaviors did you notice while observing the paramecium? \_\_\_\_\_

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7. How do paramecia reproduce? \_\_\_\_\_

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8. Research the *Paramecium bursaria*. How is this particular species unique from other species of paramecium? \_\_\_\_\_

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9. Compare your hypothesis to your observations. \_\_\_\_\_

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