

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

## HOW SMALL CAN ORGANISMS BE?

### PROBLEM:

You have learned that all living organisms are made up of cells. How small can organisms be?

### HYPOTHESIS:

I think that organisms can be \_\_\_\_\_ because \_\_\_\_\_.

### EXPERIMENT:

#### Materials

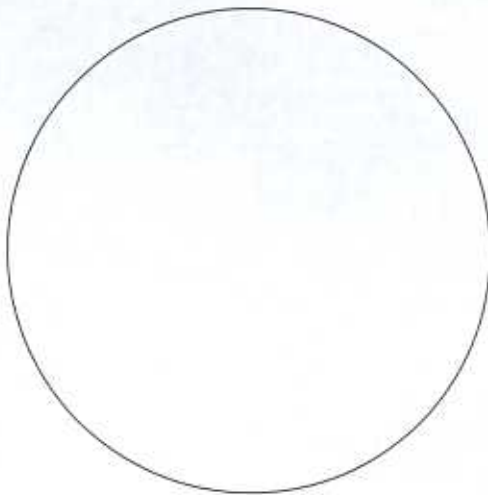
1. Microscope
2. slide with pond water samples
3. Microorganism identification chart

#### Procedures

1. Observe the prepared slides of pond water with a microscope. Use only the 4x and 10x objective lenses (the 40x lens may bump the slide and hurt the organisms found on the slide).
2. Record the following information for 3 different organisms:
  - a. What it looks like - draw the organisms that you see in the water sample in the appropriate circles.
  - b. How it moves (ex: moves straight, in a circle, twirls, etc...)
  - c. How fast it moves (ex: very slow, slow, fast, etc...)
  - d. What color it is (when you have time after your observation, color your drawing)
  - e. What shape it is
3. Identify the organism with the identification chart.

Collecting Data

**Organism #1**



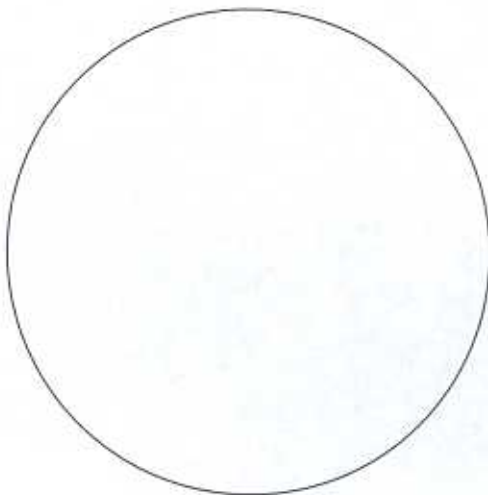
How does it move?

How fast does it move?

What color is it?

What shape is it?

**Organism #2**



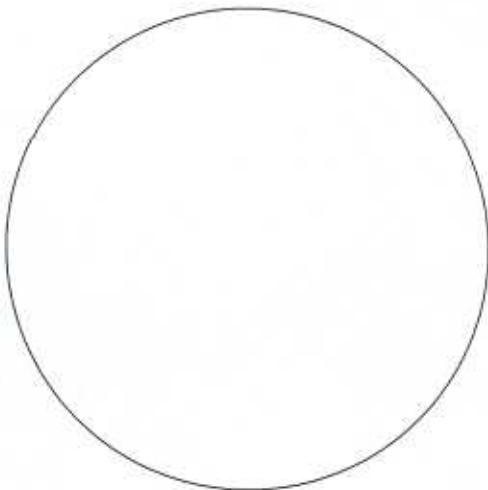
How does it move?

How fast does it move?

What color is it?

What shape is it?

**Organism #3**



How does it move?

How fast does it move?

What color is it?

What shape is it?

## **ANALYZE DATA:**

1. Identify the organisms by using the microorganism identification chart and readings.
2. Complete the chart for each organism using the readings (not your observations).

	<b>ORGANISM #1</b>	<b>ORGANISM #2</b>	<b>ORGANISM #3</b>
<b>NAME OF ORGANISM</b>			
<b># OF CELLS</b>			
<b>SIZE</b>			
<b>SHAPE</b>			
<b>WHAT TYPE OF HABITAT DOES IT LIVE IN?</b>			
<b>HOW DOES IT MOVE? (WHAT BODY PART DOES IT USE TO MOVE?)</b>			
<b>HOW DOES IT GET ITS FOOD? (MAKE ITS OWN OR EATS OTHER ORGANISMS)</b>			
<b>OTHER INTERESTING FACT</b>			

### CONCLUSION:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page or a sheet of stationery. There is no handwriting or other markings on the page.