

## Classroom Procedure

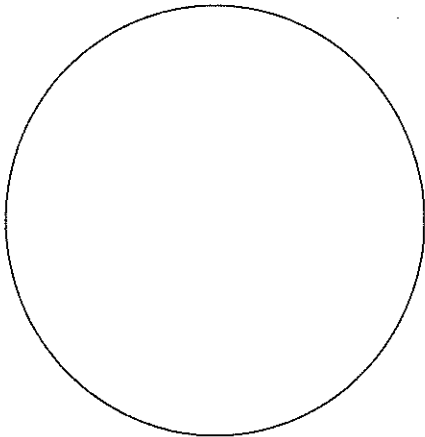
### Part 1 – Mystery Pictures

#### Procedure for students:

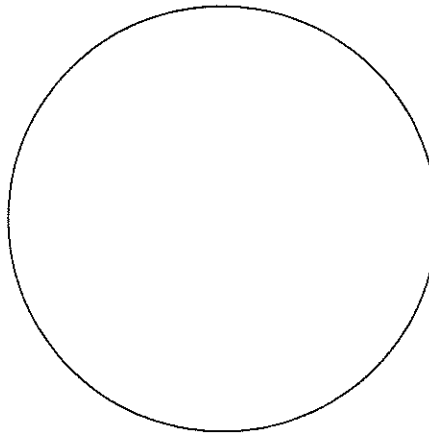
1. Pick a comic.
2. Look at the comic strip under the microscope at low power. Draw your observations in the results section below. Be sure to include color.
3. Look at the comic strip under the microscope at medium power. Draw your observations in color in the results section below.
4. Look at the comic strip under the microscope at high power. Draw your observations in color in the results section below.

#### Results:

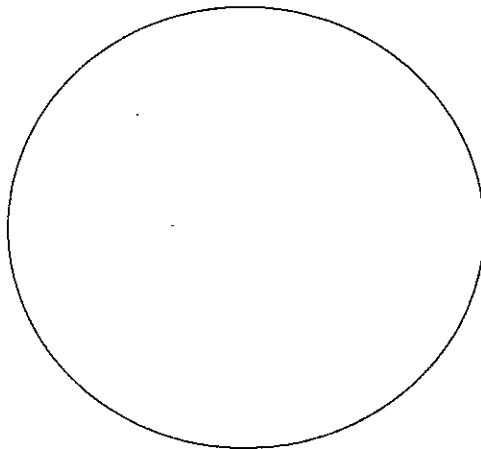
Low power



Medium Power



High power



### Part 2 – Pond Water

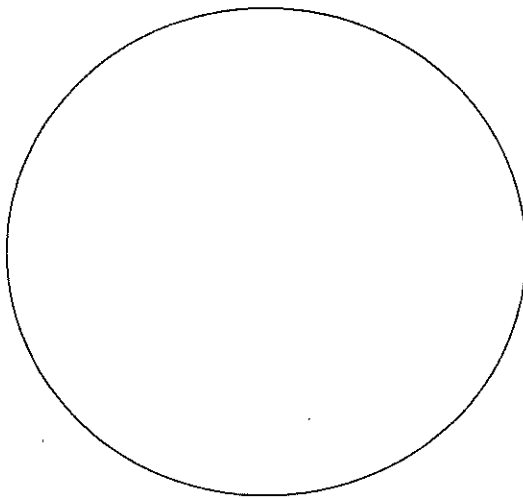
#### Materials:

- Baby food jar of pond water

- Dropper
- Slide
- Slide cover
- Microscope
- Colored pencils

**Procedure for students:**

1. Use the dropper to get some pond water.
2. Place 1-2 drops of pond water onto the slide.
3. Place a cover slide on top of the pond water.
4. Place the prepared slide on the microscope.
5. Look at the pond water at different powers.
6. Describe your observations in the results section below.



**Results:**

Draw what you observe in the microscope.

1. Describe your observations. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. Power level \_\_\_\_\_

**Part 3 – Choice Experiment**

**Materials:**

- Slides and cover sheets
- Colored pencils
- Three Choice items (for example, a piece of paper towel, soap, hair, etc.)

**Procedure:**

1. Pick something that you think would be cool to look at under the microscope.
2. Place it on the slide with a cover sheet.
3. Look at the item at different power.
4. Explain what you found in the results section below.
5. Repeat steps 1-4 for two more items.

**Results:**

1. Name of item 1: \_\_\_\_\_
2. Draw what you observe using color.
3. Label the power with which you made your observations.
4. Describe your observation (what did you see)?

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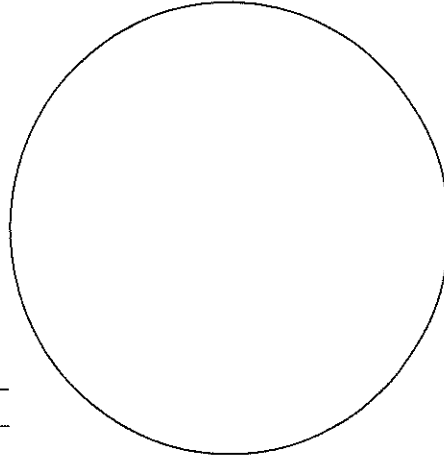
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Power level \_\_\_\_\_



5. Name of item 2: \_\_\_\_\_
6. Draw what you observe using color.
7. Label the power with which you made your observations.
8. Describe your observation (what did you see)?

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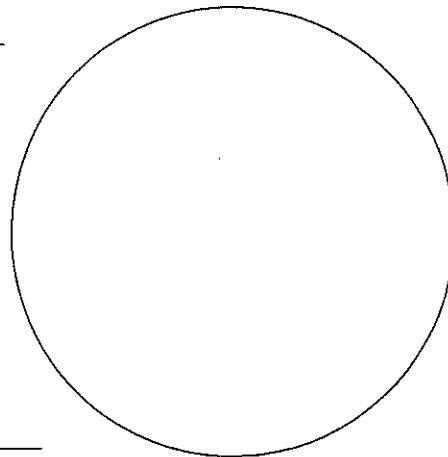
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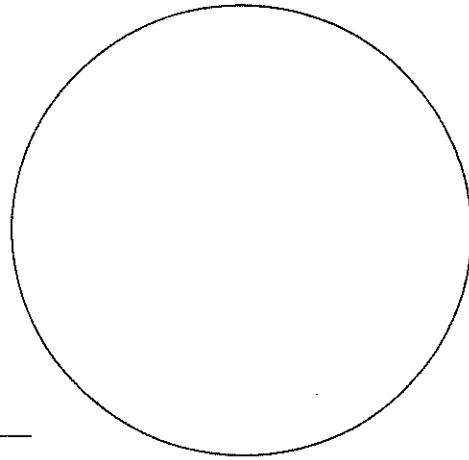
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Power level \_\_\_\_\_



9. Name of item 3: \_\_\_\_\_
10. Draw what you observe using color.
11. Label the power with which you made your observations.
12. Describe your observation (what did you see)?



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Power level \_\_\_\_\_

#### Part 4 – Select a Slide

##### Materials:

- Prepared slides
- Microscope
- Colored pencils

##### Procedure:

1. Pick up a prepared slide and write the name of the specimen in the results section below.
2. View the specimen under the microscope at low power.
3. Draw what you see under the microscope in the results section.
4. View the same specimen under medium power.
5. Draw what you see in the results section.
6. Repeat for high power and draw what you see.
7. Repeat steps 1-6 with a second prepared slide.

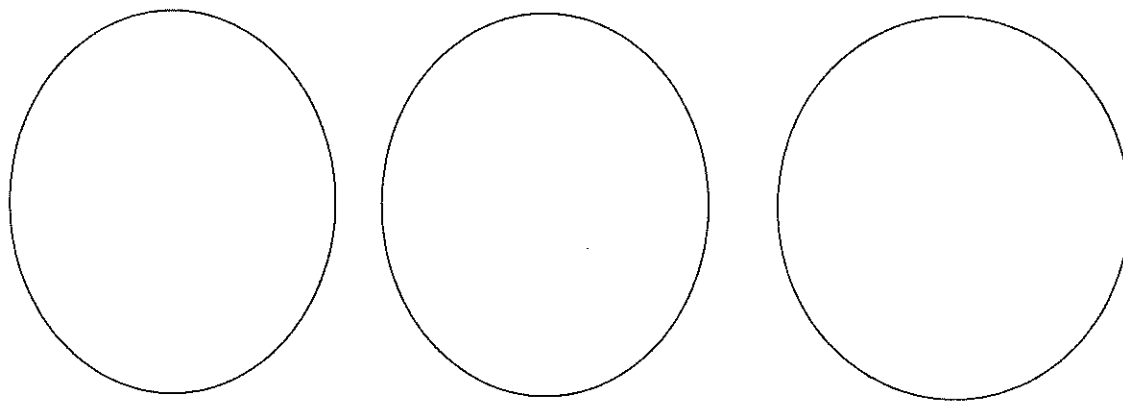
##### Results:

Name of Specimen \_\_\_\_\_

Low

Medium

High



Name of Specimen \_\_\_\_\_

### Part 5 - Onion or Leaf

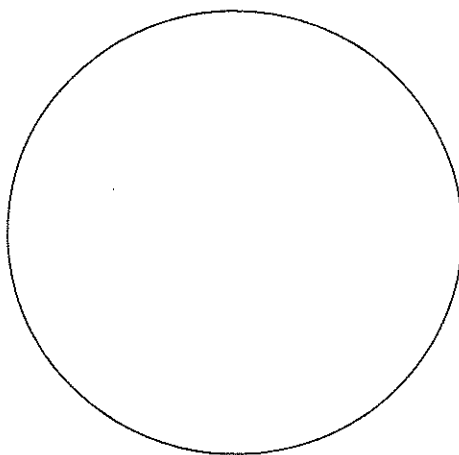
#### Materials:

- Prepared Onion/Leaf slide
- Microscope

#### Procedure:

1. Pick up a prepared onion/leaf slide.
2. View the specimen under the microscope at different powers.
3. Draw what you see under the microscope in the results section.

#### Results:



### Critical Thinking Questions

1. What happens to the material you are observing in the microscope as the power increases?
2. What do you notice about the coloring of a comic as you magnify the picture?
3. List slides of cells that are similar.
4. What do these cells have in common?

5. List slides that are different. What are these differences?

Use the table below and place the cells that you observed into two different categories.

List the rule(s) that you used to put them where you did.

Column One	Column Two		
<table border="1"><thead><tr><th data-bbox="412 352 548 415">Rule(s)</th></tr></thead><tbody></tbody></table>	Rule(s)	<table border="1"><thead><tr><th data-bbox="1016 352 1153 415">Rule(s)</th></tr></thead><tbody></tbody></table>	Rule(s)
Rule(s)			
Rule(s)			

**STUDENTS MUST CLEAN UP! ALL SLIDES ARE CLEANED AND PUT AWAY.**