# **Viewing Mitosis Under the Microscope**

### **Purpose**:

- 1. Practice viewing objects under the microscope
- 2. Practice making scientific observations/drawings
- 3. Observe the different stages of mitosis in animal cells and plant cells

### Materials:

- Compound Light Microscope
- Prepared slides of plant and animal cells

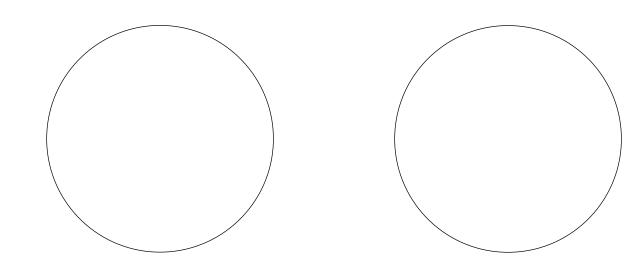
### **Procedure**:

- 1. Observe the 4 different stages of mitosis; Prophase, Metaphase, Anaphase, and Telophase; showing Allium root tips on high power.
- 2. FOR EACH phase, you must make a drawing of at least ONE cell in the given mitosis stage, labelling the chromosomes and/or nucleus.

## Data & Observations:

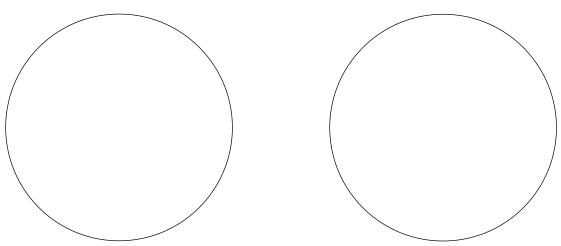
1. Prophase

2. Metaphase



### 3. Anaphase

4. Telophase



#### Analysis/Questions:

1. For each phase of mitosis, what observation allowed you to identify which cell was doing it?

a. P

b. M

c. A

d. T

2. What was special about an onion (Allium) root tip that made mitosis especially visible there (hint: it has to do with one of the reasons cells divide)?