

## Viewing Plant and Animal Cells

### PLANT CELLS:

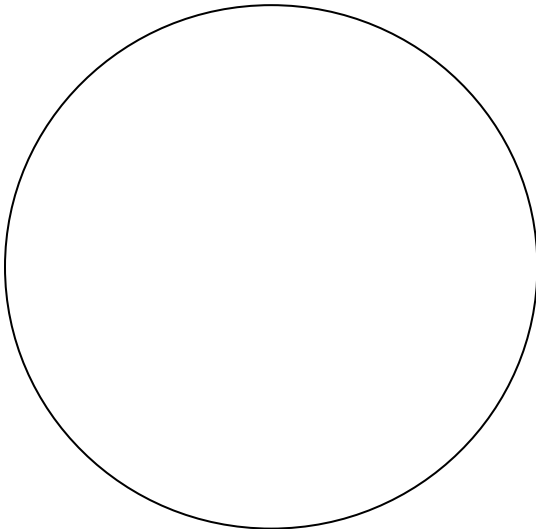
#### Materials:

- Slides
- Coverslips
- Compound light microscope
- Small piece of onion
- Forceps
- Droppers
- Water
- Paper towel

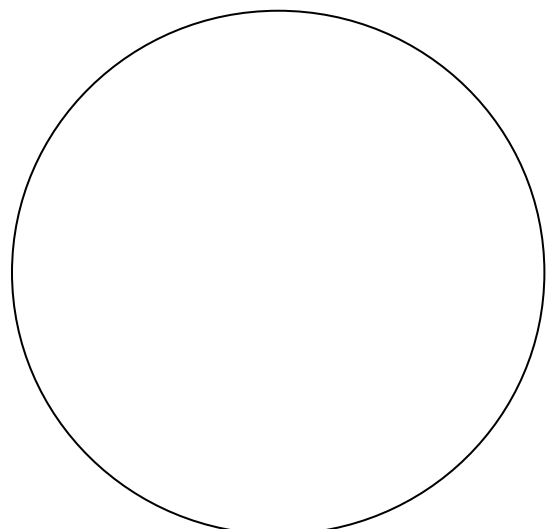
#### Procedure:

#### **PART A: PLANT CELL**

1. Read all steps of this procedure
2. Obtain all of your required materials
3. Peel a very thin layer of onion skin off the inside of your onion sample
4. Place the onion layer on a slide, then add two drops of water
5. Carefully place a cover slip over top of the sample with as few bubbles as possible
6. Observe the onion skin under the light microscope on **LOW POWER**
7. Find one main cell to focus on, you may increase the magnification if you like (remember only the FINE FOCUS is used at higher magnifications). **DRAW A DIAGRAM below.**
  - **Label the cell membrane, cell wall, cytoplasm and any other organelles you can see (i.e. nucleus...)**
8. Clean up your slide materials as instructed



Magnification: \_\_\_\_\_



Magnification: \_\_\_\_\_

**ANIMAL CELLS:**

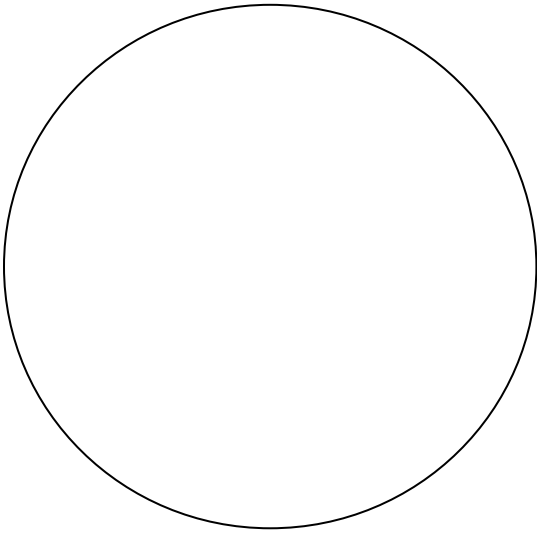
For the animal cell we will be using prepared slides because of the biohazards associated with working with human tissue.

1. Get a prepared slide of animal tissue and place it on your microscope stage using the slide clip
2. Focus at LOW POWER and find a cell you are interested in.
3. Move up to medium power and focus again using the FINE FOCUS.
4. If the cell is still not big enough try moving to high power and focusing again using the FINE FOCUS.

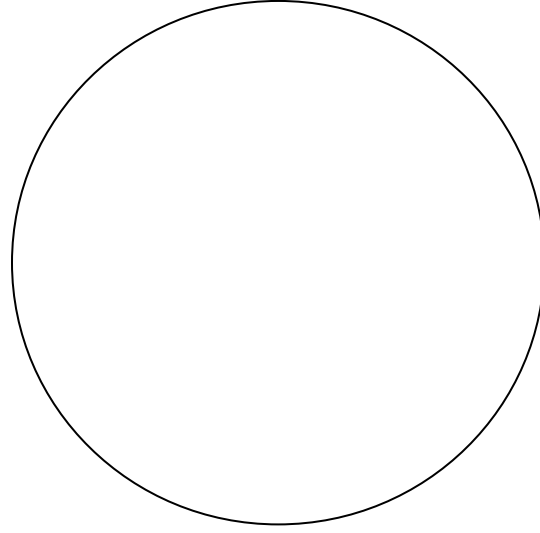
**DRAW A DIAGRAM below.**

**Label the cell membrane, cytoplasm and any other organelles you can see (i.e. nucleus...)**

5. Clean up your materials as instructed

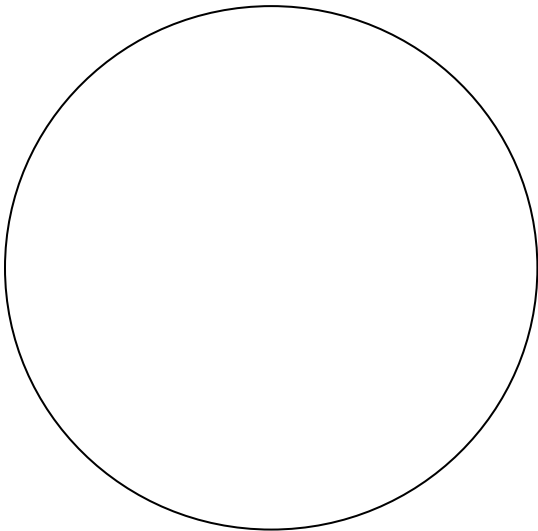


Magnification: \_\_\_\_\_

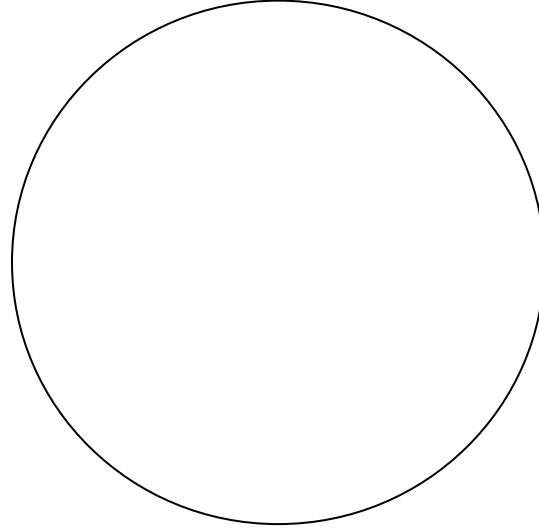


Magnification: \_\_\_\_\_

Here are some extra circles for other things you may want to draw:



Magnification: \_\_\_\_\_



Magnification: \_\_\_\_\_