Name - _____
Partner - _____

# Viewing Cells under the Microscope

Purpose - _____
_____

Procedure -

**ONION CELL**

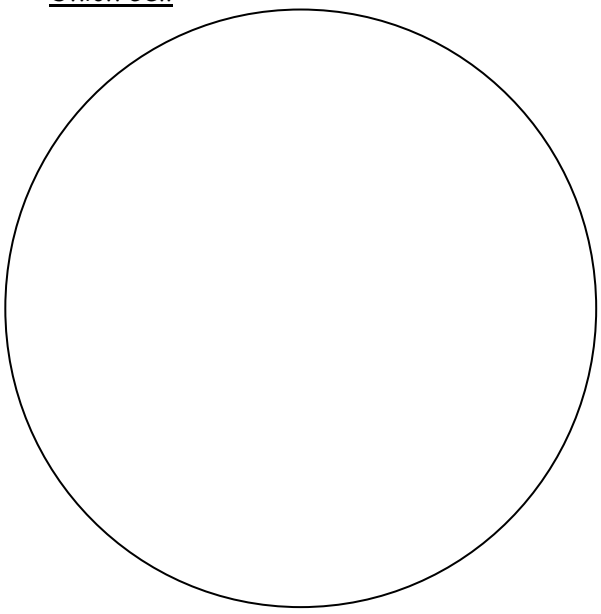
1. Prepare a slide by placing two drops of iodine onto the slide.
2. Obtain a sample of onion. Snap the sample into two pieces and use tweezers to gently pull off a thin layer of onion skin. Place this sample onto a slide. Protect it with a cover slip.
3. Observe the onion sample and use a pencil draw your observations in the area below.

**CHEEK CELL**

1. Choose 1 group member to be the cell donor.
2. The donor obtains a sample by gently rubbing the inside of his/her cheek. Spread the sample onto a slide. Prepare the slide by placing two drops of iodine onto the area of the slide containing the sample. Protect your sample with a cover slip.
3. Observe the skin cells and use a pencil to draw your observations in the area below.

Observations:

Onion Cell



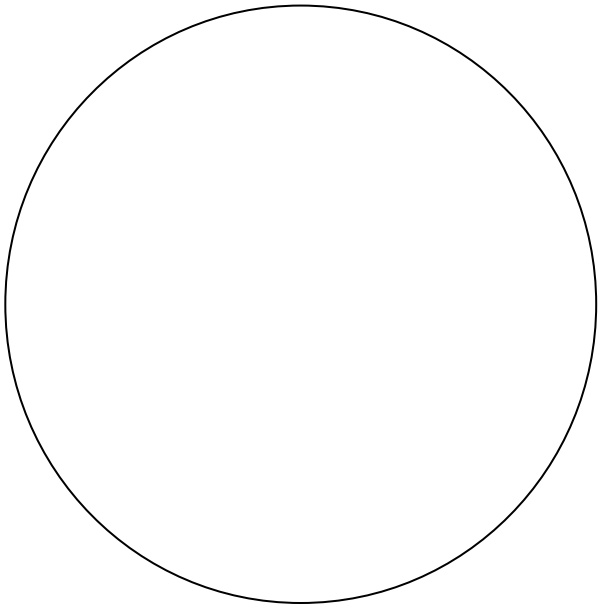
Cell Type: _____

Lens: _____

Field of View: _____

Size Calculation:

Cheek Cell



Cell Type: _____

Lens: _____

Field of View: _____

Size Calculation:

Analysis:

1. What parts of the cell were **visible** in your onion cell? Label these on your drawing.

2. What parts of the cell were **visible** in your cheek cell? Label these on your drawing.

3. What was the most obvious difference between the onion and cheek cells?

4. What type of cells are plant and animal cells classified as?

Conclusion -