

# FIELD OF VIEW with STAINS- Lab Sci 8- Unit 2- NAME:

**Question:** What differences in the 'field of view' do you think you will notice as the magnification increases? What difficulties do you encounter finding the image when the magnification is increased? Which Stain colour will provide the best image to view the cells.

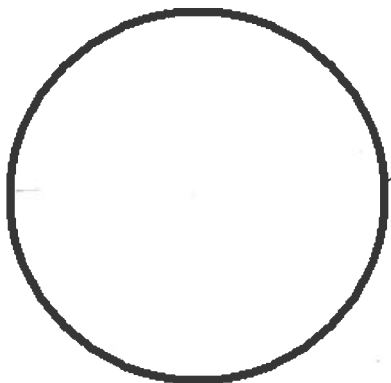
**Hypothesis:** (use sentences that predict your answers)

## Procedure:

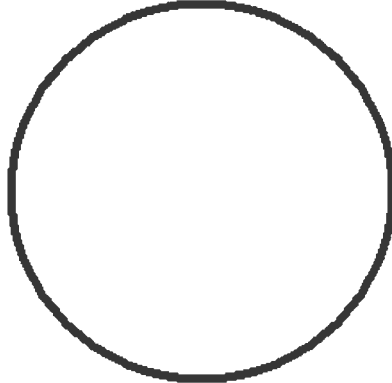
- Collect Materials:**  
Microscope, Clean blank Slide, slide cover, scalpel, eyedropper, tweezers, Onion, Blue Stain/ Red Stain
- Create your 2 'Wet Mounts' with each type of colours.
  - o Cut thin Onion layer
  - o place on slide- lay flat- add stain
  - o take the slide cover and place it at a 45 degree angle before dropping it on slide
- Place slide on the stage.
- Use lowest powered lens to focus the image of the onion in the center  
(this will require you to adjust the slide by hand)  
Sketch and Label your result in the 'Field of View' circles provided.
- Repeat the above step, using the medium and then the high powered lenses.
- REPEAT ALL STEPS with alternate colour- Indicate under each circle which colour gave a better image.

## Results:

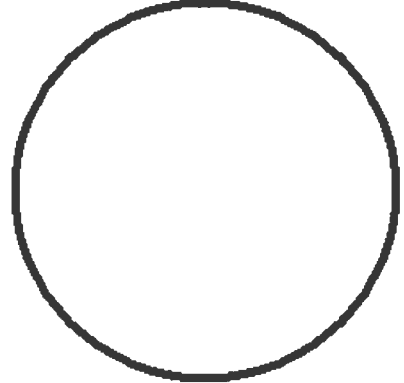
FOV Low: diameter



FOV: Med.



FOV: High



## Conclusion:

(Using your results, please re-answer the questions from the start of the Lab. Use 4 full sentences discussing what you have learnt.) - things you found difficult -error that may have effected your results -was your hypotheses correct? Why or why not?