Lab Extension: Plant & Animal Cells

Name: _____ **Lab Report Due Date:** _____

Directions: Please complete a lab report using the outline provided below. The report should be typed if possible and if not neatly written in black or blue ink.

Pre-lab Questions:

1. What is iodine and methylene blue? What are each used for?
2. What are the differences between a plant and animal cells?
3. What are chloroplast and what is their function?
4. Where and how does an onion grow?

Analysis Questions:

1. Calculate the field of view and document it in the observation section for both of your biological diagrams.
2. Create a chart to document the measurements of the length and width of the onion and cheek cells viewed. Make sure to create a column that shows your work and calculations.

Note: questions 1 and 2 can be put in the data section or analysis question

3. Why was iodine and methylene blue added to the slides?
4. Describe shape of the two types of cells you observed. ‘
5. Why were no chloroplast seen in the onion cells? (No, it is not because the microscopes were not powerful enough, think about where the onions are located).

Lab Report Outline:

- **Lab Report:**

1. Information "box"
2. Pre-Lab Questions
3. Analysis Questions
4. Conclusion
5. Biological Drawings

Lab Title
Your Name
Course Name (period)
Due date

Pre-Lab Questions
1. Answers in full sentences!

*You do not need to include the safety ones**

Data
Include any data collection (diagrams, graphs, calculations, etc)

Analysis Questions
1. Answers in full sentences!
2. If you are asked for biological drawings, please add these to the back and identify this in the analysis questions.
3. Remember extension questions are by choice.

Conclusion
*Give a summary of what the **purpose** of the lab was, identify what you **learned**, and what, if any **struggles** you encountered including possible **solutions** to them.