

Name: _____

Date: _____ Hour: _____

Partner: _____

PURPOSE

To examine and identify characteristics of plant and animal cells and to relate those characteristics to specific functions of the cells.

PRE-LAB

1. What is the basic structural feature that distinguishes plant and animal cells from bacteria? _____

2. How is the degree of specialization of cells in an organism related to the diversity of cell types in that organism?

3. Why do plant cells have a cell wall while animal cells do not? _____

4. Can mature human erythrocytes be classified as cells? Explain your answer: _____

PART ONE: PLANT CELLS

5. _____

6. _____

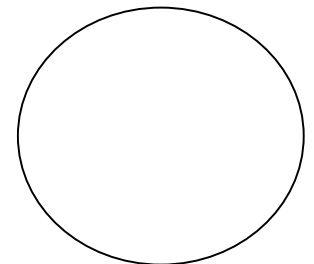
7. *Draw AND LABEL in the circle to the right.*

8. _____

9. _____

10. _____

Onion Cells, 400x



11. *Draw AND LABEL in the circle to the right.*

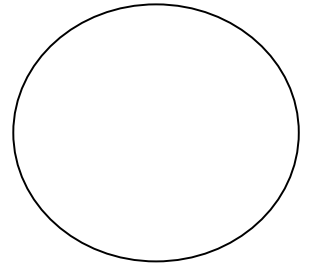
Elodea Cells, 400x

12. _____

13. _____

14. _____

15. _____



Clean Signature (Day One) _____

PART TWO: ANIMAL CELLS

Cheek Cells, 400x

16. _____

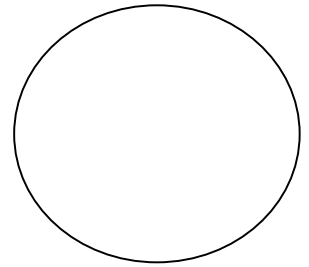
17. *Draw AND LABEL in the circle to the right.*

18. _____

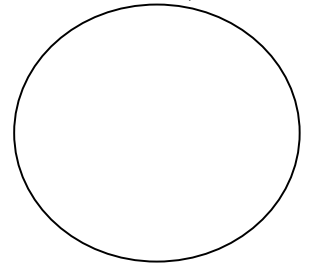
19. _____

20. _____

21. *Draw AND LABEL in the circle to the right.*



Blood Cells, 400x



POST-LAB ANALYSIS AND REVIEW

22. Onions are classified as green plants. Where in the onion plant are the green cells located? _____

How does this help to explain why there are no chloroplasts visible in the onion cells you observed? _____

23. Were any of the cells you observed in the lab prokaryotes? Explain how you know: _____

24. List three things that plant cells and animal cells have in common:

a. _____

b. _____

c. _____

25. List three things that are different between plant cells and animal cells:

a. _____

b. _____

c. _____

26. Obtain slides of unknown specimens from the teacher. Observe them and fill in the data table below:

Unknown #	Classification (Plant or Animal)	Reason for Classification

Clean Signature (Day Two)
