**EUKARYOTIC CELL POSTER PROJECT**

**Part I**

The pictures in most textbooks teach what the “average” or “typical” animal or plant cell looks like, but in reality there are many variations in shape and structure within cells to help them accomplish a specific function. Research one of the following cell types and compare its specific cell structure (morphology) to that of the “typical” animal or plant cell that we have been learning about in class. Complete the included chart of comparisons between the average cell and the cell type you picked. **On the list, be sure to mention HOW your specific cell’s shape (STRUCTURE) and organelles contribute to its actual job (FUNCTION) in a living thing.**

Specific Cell Types to Research:

1. Erythrocyte
2. Neutrophil
3. Neuron
4. Goblet cell
5. Osteoclast
6. Osteocyte
7. Adipocyte
8. Ciliated Columnar Epithelial
9. Cardiomyocyte
10. Cnidocyte
11. Macrophage
12. Stoma Guard Cells
13. Schlerenchyma
14. Collenchyma

**Part II:**

Include two hand-drawn & colored pictures:

1. A labelled picture of the “typical” animal **OR** plant cell we learned about in class (whichever is more relevant to your assigned cell in part II).
2. A labelled picture of your specific cell type (from part II)

**Scoring Guide:**

15 Points for Comparison Chart

15 Points for Accurate Colored Drawings of Both Cells

15 Points for Neatness and Overall Effort

15 Points for Presentation Skills (know your information, make eye contact, don’t read to us, etc)

**Your Cell Type:**

|  |
| --- |
| What organisms contain this cell type?   |
| What organ system and/or tissues is this cell a part of?  |
| What is the function of this cell? How does it help the organism(s), organ system(s), or tissue type(s) listed above?  |
| **Comparison of “Average” Cell vs. Your Specific Cell** |
| Characteristics of the “Average” Cell | How is Your Cell Different from the “Average” Cell? | How does this difference in structure help your cell do its job? |
|  |  |  |