CELL ANALOGY POSTER COLLAGE (10 pts extra credit):

1. Draw/print a LARGE plant cell in pencil on *a piece of white paper*. Paste your drawing on one side of a **LARGE** piece of poster board (**tri-fold not allowed)** – NOT TOO NEAR THE EDGE.
2. Draw/print a LARGE animal cell in pencil on *a piece of white paper.* Paste your drawing beside the other drawing on the other side of the same large piece of poster board – NOT TOO NEAR THE EDGE.
3. COLOR CODE YOUR CELL(S)! Include the following structures:

|  |  |
| --- | --- |
| **BASIC TEN CELL PARTS** | **ADDITIONAL OPTIONS** |
| cell or plasma membrane | cell wall |
| cytoplasm | chloroplast |
| nucleus | lysosomes |
| nucleolus | vacuoles |
| chromatin | microfilaments |
| Golgi apparatus | microtubules |
| mitochondria | cilia |
| endoplasmic reticulum | centrioles |
| ribosome | centrosomes |
| nuclear membrane | flagella |
|  | plastids |
|  | peroxisome |

1. Correctly identify EACH cell as a plant or an animal cell.
2. Find out the function of each structure in the cell.
3. Find a *magazine, newspaper or web picture* (COLOR!) of an everyday object that has a function similar to that of each different cell structure cell structure. Write an analogy to show the similarity between the cell part and the everyday object. **Be sure to explain the reasoning behind your analogies**.
   * Ex. The nucleus is like a brain because it controls and coordinates the activities of the whole cell in the same way the brain controls and coordinates activities of the body. Don’t utilize this example in your poster.
   * NOTE: **ONE** analogy per cell structure. (i.e. you **cannot** do 1 analogy for golgi in plant cells and 1 for golgi in animal cells) – all analogies MUST be for different organelles!
   * NOTE: the analogy should reflect the organelles **FUNCTION – not shape!**
   * HINT: be careful with analogies that are stated as “\_\_\_\_\_\_\_ is like a \_\_\_\_\_\_ because the both \_\_\_\_\_\_” – these tend to be incomplete and inaccurate!
4. Paste the pictures of the everyday objects (see #6) along the sides of your cell drawings. Label the pictures with your neatly written analogies and draw a pointer to the correct structure in your cell drawing.\*
   * *Typing your analogies, labels, etc is highly encouraged, especially if you do not have neat handwriting*.
5. YOU MUST COMPLETE AT LEAST 5 ANALOGIES!

Evaluation: Your cell analogies collages will be graded for correctness, neatness, completeness and originality according to the following:

9-10 - Neat, correct, complete, 6 or more correct analogies

The inclusion of any newly discovered organelles other than those listed above will be considered as going above and beyond and will be graded accordingly.

7-8 - Neat, correct, complete, 5 correct analogies

5-6 - Neat, correct, 3/4 correct analogies

1-4 - Messy, incorrect, or incomplete

0 - Totally blank

**\*Your poster should NOT be 3-D and NONE of your work should exceed the edges of the poster board\***