

Cell Analogy Project

Due Date: December 10, 2010

Grade Type: Individual Project

Points: 100

Essential Question: What is the structure and function of the cell?

Requirements:

This assignment is to put together an analogy for either a plant or animal cell - similar to the Inman Middle School analogy we used during class. You can choose to compare the cell to anything you like except your house.

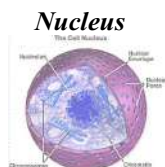
The analogy should reflect your best work. Make it creative. The analogy can be presented as a poster or a flipbook. I'll have examples to review in class.

On the cover of your flipbook or as a title for your poster, you must include the name and a picture of your cell (plant or animal), the name and a picture of the object you are comparing to the cell, your name, the date you turn in the project and your class period.

The following organelles/parts of the cell should be included: 1) cell membrane, 2) nucleus, 3) mitochondria, 4) golgi apparatus, 5) lysosome, 6) ribosome, 7) vacuole and 8) endoplasmic reticulum. If you are assigned the plant cell, be sure to also include the 9) chloroplast and 10) cell wall.

For each organelle/part, you must include: 1) the name of the organelle, 2) a picture of the organelle, 3) the function of the organelle, 4) the object you are comparing to the organelle, 5) a one sentence analogy that shows the similarity between the organelle and your object and 6) a picture of the comparison object. See the following example:

Example comparing a Plant Cell to the White House



The nucleus controls all activities of the cell.

VS.

President



Like the nucleus, the president controls all activities of the White House.

Plagiarism:

Be sure to write your captions in your own words. Do not copy directly from the web, encyclopedia or books. You will receive a failing grade on this project for plagiarizing and be asked to redo your work. To save time, do it right the first time 😊.

Rubric:

Name: _____

	4	3	2	1
Header	Includes title and pictures (ex: "Animal Cell vs. White House" along with pictures of each). Name, date and period.	Missing some of the required header information.	Missing most of the required header information.	No header information provided.
Description of the organelle function	Accurate descriptions of the organelle function written in own words.	Most organelle functions are described accurately.	Some incorrect or missing organelle functions.	Organelle functions not included or are incorrect.
Organelle Analogy	All analogies accurately reflect a similar function within the comparison object.	Most analogies reflect a similar function within the comparison object.	Only a few analogies reflect a similar function within the comparison object.	Analogies missing or are incorrect.
Pictures	All pictures included for the organelles and the comparison objects.	Most, but not all pictures included for the organelles and comparison objects.	Missing many pictures. Pictures missing for either the organelles or the comparison objects.	No pictures included.
Visual Appeal	The product is exceptionally attractive in terms of layout, design and neatness.	The product is attractive in terms of layout, design and neatness.	The product is acceptably attractive, but layout, design and/or neatness could be improved.	The product is distractingly unorganized in terms of layout, design and/or neatness.
Mechanics	No errors in grammar and/or spelling.	Few errors in grammar an/or spelling.	Some errors in grammar an/or spelling.	Many errors in grammar an/or spelling.

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