

The Organelles - Botany

The purpose of this assignment is to provide you with an alternate format for demonstrating your knowledge. If you chose not to do this assignment then you must take the regular quiz.

In place of taking the quiz (worth 70 points) on the organelles you may instead complete the following assignment (also worth 70 points). You may not take the quiz and do this assignment and pick the better score. If on the day of the quiz you have not yet turned in your project then you must take the quiz.

I would like you to create a comic book whose superheroes are the organelles. It can also be a story in which the organelles are characters, in other words they don't need to wear capes and masks (even if capes are kinda like lab coats and as we all know lab coats are cool).

You may hand draw or use a computer to create your comic book. Flash animations, mpegs etc are acceptable forms of organelle expression.

Heck if you wanted to dress up like all of the organelles and videotape yourself that's cool too....see me first as that is a lot more work than the 70 points this assignment is worth

“70/70” level work will have all of the following:

- ✓ Clear and precise drawings of the organelles (with allowances for artistic freedom)
- ✓ Clear description of the structure and function of the organelles within the plant cell.
- ✓ A well-developed storyline/ plot.
- ✓ Clarity of writing/ drawing
- ✓ Accurate information (example: Ribosome Man should not be seen making lipids)
- ✓ Answers, explains or demonstrates the following questions/ concepts:
 - Fluid mosaic model
 - The three main areas of the eukaryotic cell
 - Demonstrates the interaction between the organelles (ex: chloroplast & mitochondria)
 - Addresses the structure and function of each organelle that we have covered

There should be no fewer than 20 panels of action but there is no maximum limit.

I appreciate all forms of humor (even if they include the “Evil” Mr. O who has come to steal all of the innocent children of celltown) just be sure that you would be willing to show these projects to your parents, grandparents, favorite first grade teacher....

This assignment is due by

Late assignments will be accepted but only so I can use them as material for the compost pile. You are welcome to turn them in early so that they may be checked for errors and returned for correction before they are formally submitted.

Name _____ – Title _____

As according to your handout “70/70” level work will have all of the following:

Clear and precise drawings of the organelles

Clear description of the structure and function of the organelles within the cell.

A well-developed storyline/ plot.

Clarity of writing/ drawing

Accurate information (example: Ribosome Man should not be seen making lipids)

Answers, explains or demonstrates the following questions/ concepts:

- **Fluid mosaic model**
- **The three main areas of the eukaryotic cell**
- **Demonstrates the interaction between the organelles.**
- **Addresses each of the organelles that we have covered in class.**

- | | |
|--|--|
| <input type="checkbox"/> Cell wall | <input type="checkbox"/> Lysosomes |
| <input type="checkbox"/> Cell membrane | <input type="checkbox"/> Mitochondria |
| <input type="checkbox"/> Chloroplasts | <input type="checkbox"/> Nucleolus |
| <input type="checkbox"/> Chromoplasts | <input type="checkbox"/> Plasmodesma |
| <input type="checkbox"/> Cytoplasm | <input type="checkbox"/> Plastids |
| <input type="checkbox"/> Cytoskeleton | <input type="checkbox"/> Primary cell wall |
| <input type="checkbox"/> Endoplasmic reticulum | <input type="checkbox"/> Ribosomes |
| <input type="checkbox"/> Golgi apparatus | <input type="checkbox"/> Turgor pressure |
| <input type="checkbox"/> Leucoplasts | <input type="checkbox"/> Vacuole |

Overall impression of the project:

Final Score: