

The Cell Catalogue

There is not much you cannot buy by mail-order any more. There are catalogs for just about anything you can think of. Your task in this assignment is to create a catalog for something that there may not be a market for yet, but you never know about the future. Your catalog will be for the major organelles in the cell, and for a career in cell biology.

1. Design a page in your catalog for every organelle and its analogy. Your page must include a written description of your organelle (function and structure), a sales pitch (commercial slogan), the price of the organelle (make it up), and a full color diagram to illustrate your “product” and your analogy.
2. Your catalog will contain a Table of contents: which will be the first page inside the cover of your catalog. This should be done last and should include organelle names, page#, and space for the points (according to the rubric).

Table of Contents (Example)

Organelle	Analogy	Page #	Points
Cell membrane	Door	1	

3. Decide which organelles or structures you are going to include in your catalog. You need to have 10 structures, choose them from the list:
 - a. Cell membrane
 - b. Mitochondria
 - c. Ribosome
 - d. Rough Endoplasmic reticulum
 - e. Chloroplast
 - f. Lysosome
 - g. Golgi apparatus
 - h. Nucleus
 - i. Smooth Endoplasmic reticulum
 - j. Nucleolus
 - k. Centrioles
 - l. Cell Wall
 - m. Cytoskeleton
 - n. Cytoplasm

4. References: you must use the following references:
 - a. The textbook.
 - b. Another book or encyclopedia.
 - c. www.cellsalive.com
 - d. www.biologyjunction.com
 - e. Biology4kids.com
 - f. <http://ghr.nlm.nih.gov/handbook/basics/cell>
5. You will need to design a cover page for your catalog. Include your name, period, class, and a picture related to cell biology.
6. You need to list at least 3 careers that are related to Molecular Biology. You will fill out a chart (provided by me) with the information found by answering the questions on it. Research these pages for information:

<http://californiacolleges.edu>

<http://ciac.cusb.edu/ciac/catalogurls.html>

<http://ca-hwi.org>

www.campusexplorer.com

uscollegesearch.org/ (name of the career)

biolchem.bs.jhmi.edu/bcmb

collegeproowler.com

education-portal.com

7. Your final grade on this assignment will combine your completeness and creativity for each one of the parts of the cell catalog and your questionnaire answers.

Cell Catalog Rubric

Rubric	Points 3	Points 2	Points 1
Cover Page	Complete and creative	If it's missing one: class, name, period or creativity	If it's missing more than one.
Table of content	It's complete and includes title, names, analogies, space for the points and #pages.	If it's missing one.	If it's missing more than one.
Organelles Pages	It's complete if contains: pictures colored, label, information of the function, analogy, prices and slogan. Your creativity is very important in this section.(Extra Credit point 1 if creativity is present in more than 5 organelles pages)	If it's missing two or three characteristics. If there is not much creativity.	If it's missing more than 3 characteristics. If there is no creativity at all.
Career Research	It's complete if at least 3 careers are included. The information must be complete for each one of the careers. The references must be included. The careers need to be related to Molecular Biology.	If it's missing one career or one of the careers are not related to Molecular Biology	If it's missing more than one career or none of the careers are related to Molecular Biology.

The Cell Catalog Questionnaire

Instructions: Using your Cell Catalogs ask your partner the following questions.

Name:_____ Partner's name:_____

1. What did you learn about the cell parts?
2. According to you what part of the cell should be the most expensive and why?
3. Which analogy was the easiest and the hardest to find?
4. From your catalog which slogan did you like the most?
5. From all the parts of the cell which one was the most interesting to you?
6. Mention the 3 careers related to Molecular Biology:
7. Did you know about these careers before yes/no explain?
8. What was interesting about these careers?
9. Would you be interested in one of these careers, yes/no why?