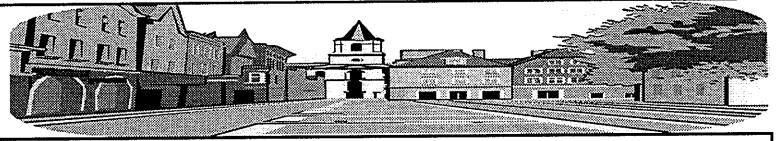


Cell City

Name: _____
Period: _____ **Table:** _____

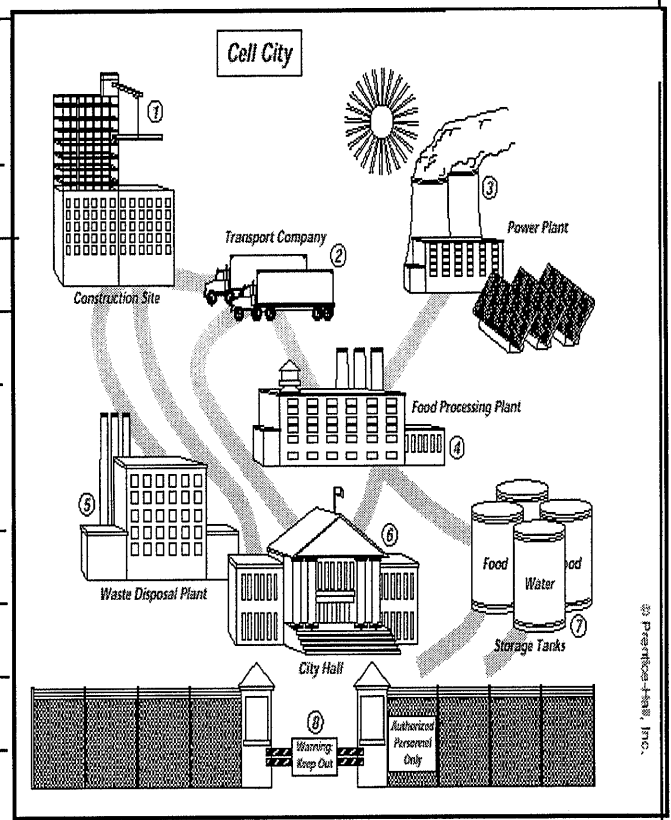


Cell Biology: the fundamental life processes of plant and animal life depend on a variety of chemical reactions that occur in specialized areas of the organism's cell.

Objective: Students understand the cell structure and function of plants and animal cells.

Below is a list of different places and things included in a typical city. You will write in the blank spot next to the city's place what cell organelle has that same or similar duty within the cell.

1. Highway or road system: _____
2. City Border: _____
3. City Wall: _____
4. Lumberyard/Construction Site: _____
5. Post Office: _____
6. Solar Energy Plant: _____
7. City Hall: _____
8. Copy Machine/ Blueprints: _____
9. Fence Around City Hall: _____
10. Power Plant: _____
11. Waste Disposal: _____
12. Warehouse/ Storage Unit: _____



With a large piece of paper you will now create your city. You can design it anyway you want as long as it includes the parts of the city from the above list. Guidelines for your city are as follows:

- You must come up with a name for your city
- Use as much of your paper as possible
- Please color your city
- Each part of the city must be labeled (Cell Organelle and City place or thing.)
- * Each part must include its function, summarized.

Biology Chapter 7-2 Cell Analogy Project Scoring Rubric

Objectives: Students will design and create a "Cell City" poster (or other approved design) with each structure representing a corresponding function of an organelle found within either a plant or animal cell.

Criteria for Student Learning	Yes/Complete	In part/Almost	Not yet	Not At All
Project Preparation Worksheet	Students choose important information about each organelle from research and complete the entire plan table. (4 pts)	Students mostly choose important information about each organelle from research and complete the entire plan table (2-3 pts)	Students don't choose important info about each organelle from research and don't complete the entire plan table. (1 pt)	Very little to nothing is done on the plan table. (0 pt)
Sources/Bibliography	Source information collected for all graphics, facts and quotes. All documented in desired format. All parts of the research project preparation document are complete. (3 pts)	Source information collected for most of the graphics, facts and quotes. Most documented in desired format. Some parts of the research project preparation document are not complete. (2 pts)	Source information collected for graphics, facts and quotes, but not documented in desired format. (1 pt)	Very little or no source information was collected. Most of the research project preparation document are not complete. (0 pts)
Poster Content	Students compare each organelle to a structure in their planned project and explains the analogy with over 95% accuracy.(5 pt)	Students compares each organelle to a structure in their planned project with and explains the analogy with 75-94% accuracy (4 pts)	Students compare each organelle to a structure in their planned project and explains the analogy with less than 75% accuracy (2-3 pts)	Students do not complete the poster and/or analogies. (0-1 pts)
Poster Design	Students use development, organization, and style appropriate for poster and audience. (5 pts)	Students mostly use development, organization, and style appropriate for poster and audience. (3-4 pt)	Students do not use development, organization, and style appropriate for poster and audience. (1 -2 pt)	Students' poster lacks many required components. (0 pts)
Class Presentation	Students have few to zero errors in presenting organelle functions and answering questions. Students present with confidence and adequate volume for observers. (3 pt)	Students have some errors in presenting organelle functions and answering questions. Students present with either a slight lack of confidence and/or adequate volume for observers.(2 pt)	Students have multiple errors in presenting organelle functions and answering questions. Students are ill-prepared, lack confidence and volume. (1 pt)	Student do not present. (0 pts)

Total Score _____/20

Name: _____ Date: _____ Period: _____

Partner Name: _____ Type of Cell Assigned: _____

Biology Pages 171-182 or Internet.

You and your partner must each complete this worksheet before you may start your Cell Project poster.

Poster Project Preparation Sheet. Refer to the example Cell City Start-up.

Cell Structure/Organelle	Types of cells-plant, animal, or both?	Function	What will you use to represent it in your poster?	Why does this representation work?
Nucleus				
Reference: Website or Book page that you used.				
Nuclear Envelope				
Reference: Website or Book page that you used.				
Nucleolus				
Reference: Website or Book page that you used.				
Cell Membrane				
Reference: Website or Book page that you used.				
Cell Wall				
Reference: Website or Book page that you used.				
Ribosomes				
Reference: Website or Book page that you used.				

Cell Structure/Organelle	Types of cells- plant, animal, or both?	Function	What will you use to represent it in your poster?	Why does this representation work?
Rough Endoplasmic Reticulum				
Reference: Website or Book page that you used.				
Smooth Endoplasmic Reticulum				
Reference: Website or Book page that you used.				
Mitochondria				
Reference: Website or Book page that you used.				
Golgi Apparatus				
Reference: Website or Book page that you used.				
Vacuoles				
Reference: Website or Book page that you used.				
Chloroplasts				
Reference: Website or Book page that you used.				
Lysosome				
Reference: Website or Book page that you used.				