

## Cell Travel Brochure

Welcome to the world of travel! Your job for this assignment is to convince the public to come and visit your plant or animal cell. Your cell is the latest attraction! The idea is to draw a large crowd (who will spend lots of money) to your cell. So, use your humor and creativity to get their attention and make them **want** to stop and see your cell!

Example: "Visit the ribosomes, located along the Endoplasmic Reticulum and watch as proteins are made Right Before Your VERY Eyes!!"

1. Choose to do an animal OR plant cell – NOT both (plants can make their own energy, animal cells have to 'eat')
2. Choose 10 cell parts from the following list: **Choose only 10**

Ribosomes	Cell Membrane	Chloroplasts
Vacuoles	Cytoplasm	Endoplasmic Reticulum
Golgi Apparatus	Mitochondria	Lysosomes
Nuclear Membrane	Nucleus	

3. Decide what kind of attraction your cell will be: a city, an amusement park, a museum, etc.
4. Use your notes or the internet to investigate what each of these parts do, and then get ready to sell your cell! Use your imagination, creativity and humor to make it seem like the greatest place on earth!
5. Create a brochure to sell your cell. Be sure to include a map of the attractions as well as a description of each cell part. Illustrate your brochure with your own sketches, computer images/download, or cut outs from magazines. You want to make lots of money, so be as creative as you can.

This project is due at the beginning of class on \_\_\_\_\_

**Late projects result in a 50% reduction**

# Cell Travel Brochure Rubric

Name: \_\_\_\_\_

Per. \_\_\_\_\_

<b>Attribute</b>	<b>Emerging</b>	<b>Competent</b>	<b>Exemplary</b>
<b>Words and Definitions</b>	Defines fewer than 7 words correctly	Defines 7-9 words correctly	Defines all 10 words correctly
<b>Uses own words</b>	Few of the descriptions are in the student's own words	Most of the descriptions are in the student's own words	All of the descriptions are in the student's own words
<b>Attractions</b>	Fewer than 6 of the attractions are illustrated, neat and appropriate for the word	7-9 of the attractions are illustrated, neat and appropriate for the word	All 10 of the attractions are illustrated, neat and appropriate for the word
<b>Creativity</b>	The attractions are somewhat creative, but a little predictable	The attractions are interesting, but not very creative	The attractions are creative and interesting, eye catching
<b>Overall appearance of the final product</b>	Brochure appears to be thrown together (messy), lack of effort and organization apparent	Mostly neat and organized, good effort apparent	Neat and organized. Excellent effort apparent, above and beyond
<b>Spelling and Grammar</b>	More than 3 spelling or grammatical errors	More than 2- 3 spelling or grammatical errors	No more than 1 spelling or grammatical error

Total \_\_\_\_\_/4

## Cell Story – A Journey into the Cell

Welcome to creative writing! In this project, you are going to really have to STRETCH your imagination to write this fascinating trip into the cell. Use the planning sheet below to develop your story. Remember, you will need as much imagination, creativity and humor as you can muster to make it to the end of this journey!

1. Choose to do an animal OR plant cell – NOT both (plants can make their own energy, animal cells have to eat)
2. Choose 10 cell parts from the following list: **Choose only 10**

Ribosomes	Cell Membrane	Chloroplasts
Vacuoles	Cytoplasm	Endoplasmic Reticulum
Golgi Apparatus	Mitochondria	Lysosomes
Nuclear Membrane	Nucleus	

3. Use the organizer sheet to prepare your story. Remember, the more creativity, the better!
4. As you go through each part, be sure to describe what the parts look like (generally) and what they are doing.

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<p><b>Part 1 (introduction)</b> Describe the setting of your story. How did your character get in the cell? What kind of cell are you in? What do you see around you?</p>	<p><b>Part 2</b> What is happening to you? Begin to develop the plot. What is it like to be inside of a cell? What is the focus of the story? Will you be trying to get out of the cell, or will something happen to you?</p>
<p><b>Part 3</b> Continue the adventure. How are you traveling around the cell? How are you reacting to what is happening inside the cell? How are different parts reacting with you?</p>	<p><b>Part 4</b> Resolve the adventure. How will your story end? How will you leave the cell (if you do)? Tie up all loose ends in this section. “Wrap up your story.”</p>

## Cell Story Rubric

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Per. \_\_\_\_\_

<b>Attribute</b>	<b>Emerging</b>	<b>Competent</b>	<b>Exemplary</b>
<b>Words and Definitions</b>	Defines fewer than 7 words correctly	Defines 7-9 words correctly	Defines all 10 words correctly
<b>Uses own words</b>	Few of the descriptions are in the student's own words	Most of the descriptions are in the student's own words	All of the descriptions are in the student's own words
<b>Planning Page</b>	Is partially filled out	Is mostly filled out and makes sense	Is completely filled out and makes sense. Extremely detailed
<b>Creativity and Interest</b>	Story is somewhat creative, but does not hold the reader's interest	Story is mostly creative and interesting to the reader	Story is unique and exciting to read
<b>Overall appearance of the final product</b>	Story appears to be thrown together (messy), lack of effort and organization apparent	Mostly neat and organized, good effort apparent	Neat and organized. Excellent effort apparent, above and beyond
<b>Spelling and Grammar</b>	More than 3 spelling or grammatical errors	More than 2- 3 spelling or grammatical errors	No more than 1 spelling or grammatical error

Total \_\_\_\_\_/4

# Cell Dictionary

- Using the list of vocabulary words below you are to create a cell dictionary book that contains the following: (check them off as you finish)

Overall for the project:

\_\_\_\_\_ A cover sheet with a title, your name, and period

\_\_\_\_\_ A Table of Contents that lists the vocabulary words (in alphabetical order) and the page number they are found on

For each word:

\_\_\_\_\_ A definition for each word (**in your own words**)

\_\_\_\_\_ Characteristics of that part (what is it like, what does it look like, where is it found)

\_\_\_\_\_ Three analogy examples – what else (in the real world) does it act like?

\_\_\_\_\_ Three Non-Examples – what else (in the real world) does it not act like?

\_\_\_\_\_ Picture – what does it look like (generally) - in color

- You may use your notes or the internet, but remember to **use your own words** – we want these definitions in understandable English, not in confusing science terms. We also don't want plagiarizing.
- List of words to use. **Use only 10**

Ribosomes	Cell Membrane	Chloroplasts
Vacuoles	Cytoplasm	Endoplasmic Reticulum
Golgi Apparatus	Mitochondria	Lysosomes
Nuclear Membrane	Nucleus	Animal Cell
Plant Cell		

This project is due at the beginning of class on \_\_\_\_\_

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# Cell Dictionary Rubric

Name: \_\_\_\_\_

Per. \_\_\_\_\_

<b>Attribute</b>	<b>Emerging</b>	<b>Competent</b>	<b>Exemplary</b>
<b>Words and Definitions</b>	Defines fewer than 7 words correctly	Defines 7-9 words correctly	Defines all 10 words correctly
<b>Cover Sheet and Table of Contents</b>	TOC barely filled out or is incorrect. Cover sheet severely lacking information or missing	TOC partially filled out. Cover sheet lacking information	TOC accurate and fully filled out Cover sheet has all requested information
<b>Uses own words</b>	Few of the definitions are in the student's own words	Most of the definitions are in the student's own words	All of the definitions are in the student's own words
<b>Characteristics</b>	Has 1 characteristic per word	Has 2 characteristics per word	Has 3 or more characteristic per word
<b>Examples</b>	Uses 1 example per word for most words	Uses 2 examples per word for most words	Uses 3 examples per word for most words
<b>Non-Examples</b>	Uses 1 non-example per word for most words	Uses 2 non-examples per word for most words	Uses 3 non-examples per word for most words
<b>Pictures</b>	Sketches are kind of messy and/or not colored	Sketches are neat, colored, but not very detailed	Sketches are neat, colored, detailed, and eye-catching
<b>Spelling and Grammar</b>	More than 3 spelling or grammatical errors	More than 2- 3 spelling or grammatical errors	No more than 1 spelling or grammatical error
<b>Overall appearance of the final product</b>	Dictionary appears to be thrown together (messy), lack of effort and organization apparent	Mostly neat and organized, good effort apparent	Neat and organized. Excellent effort apparent, above and beyond

Total \_\_\_\_\_/4

## Cell Catalogue

There is not much you can't purchase through mail order anymore. There are catalogues for just about anything you can think of. Our task in this assignments is to create a catalogue for something there may not be a market for yet, but you never know about the future! Your catalogue will be for **10 major parts of a plant OR animal cell**.

1. Choose to do an animal OR plant cell – NOT both (plants can make their own energy, animal cells have to eat)
2. Choose 10 cell parts from the following list: **Choose only 10**

Ribosomes	Cell Membrane	Chloroplasts
Vacuoles	Cytoplasm	Endoplasmic Reticulum
Golgi Apparatus	Mitochondria	Lysosomes
Nuclear Membrane	Nucleus	

3. Use your notes or the internet to investigate what each of these parts do, and then get ready to sell your cell!
4. Use your humor, creativity, and imagination to design one section in your catalogue for each cell part. Each section should include:
  - a. A written description of the cell part – **in your own words**.
  - b. A sales pitch – why is it so cool someone should spend money on it?
  - c. A full color picture of the cell part **OR** a larger picture of the entire cell with numbers to match the parts you are selling.
  - d. A price – how much will someone have to pay to get this great item? Is there a discount to buy the whole cell at once?
5. Design a cover with your company's name, your name, and period.

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## Cell Catalogue Rubric

Name: \_\_\_\_\_

Per. \_\_\_\_\_

<b>Attribute</b>	<b>Emerging</b>	<b>Competent</b>	<b>Exemplary</b>
<b>Words and Definitions</b>	Defines fewer than 7 words correctly	Defines 7-9 words correctly	Defines all 10 words correctly
<b>Cover Sheet</b>	Cover sheet severely lacking information or missing	Cover sheet lacking information	Cover sheet has all requested information
<b>Uses own words</b>	Few of the descriptions are in the student's own words	Most of the descriptions are in the student's own words	All of the descriptions are in the student's own words
<b>Advertisements</b>	Fewer than 6 of the advertisements are illustrated, neat and appropriate for the word	7-9 of the advertisements are illustrated, neat and appropriate for the word	All 10 of the advertisements are illustrated, neat and appropriate for the word
<b>Creativity</b>	The advertisements are somewhat creative, but a little predictable	The advertisements are interesting, but not very creative	The advertisements are creative and interesting, eye catching
<b>Overall appearance of the final product</b>	Catalogue appears to be thrown together (messy), lack of effort and organization apparent	Mostly neat and organized, good effort apparent	Neat and organized. Excellent effort apparent, above and beyond
<b>Spelling and Grammar</b>	More than 3 spelling or grammatical errors	More than 2- 3 spelling or grammatical errors	No more than 1 spelling or grammatical error

Total \_\_\_\_\_/4



## Cell Analogies Collage

Welcome to the world of analogies. Around here, nothing is as it seems. Everything relates to something else – somehow. Your job is to make it all connect. In this project, you will be using analogies to compare the cell to other things in your everyday life. An analogy is “A comparison between two things which are similar in some aspects, but otherwise are different.”

For example: The human body is like a car engine. They both require fuel to make energy, use the energy to move things and then give off waste.

1. Choose to do an animal OR plant cell – NOT both (plants can make their own energy, animal cells have to ‘eat’)
2. Choose 10 cell parts from the following list: **Choose only 10**

Ribosomes	Cell Membrane	Chloroplasts
Vacuoles	Cytoplasm	Endoplasmic Reticulum
Golgi Apparatus	Mitochondria	Lysosomes
Nuclear Membrane	Nucleus	

3. Use your imagination, creativity and humor to come up with a large analogy for the cell. Be sure that your analogy will work with all of the cell parts your chose. For example, if the human body is like an engine, I should be able to explain how each of the organs in the human body compare to the individual parts of an engine.
4. Draw or print a picture of your cell (plant or animal depending on what you chose).
5. For each cell part:
  - a. Draw an arrow to a blank section of your poster paper.
  - b. Describe what that part of the cell does. **Be sure to use your own words.**
  - c. Describe how that part relates to your analogy. For example: The gasoline put in an engine is like food taken into a body because they both supply energy to fuel the movement of the engine or body.
  - d. Cut out pictures from magazines or use pictures off the computer to show the everyday object that is related to your cell part. You should have at least 3 pictures for each object.
6. Be sure it is colorful and interesting to look at. Remember the more creative, interesting, or humorous the better!
7. Be sure to include your name and period.

This project is due at the beginning of class on \_\_\_\_\_

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# Cell Analogies Collage Rubric

Name: \_\_\_\_\_

Per. \_\_\_\_\_

<b>Attribute</b>	<b>Emerging</b>	<b>Competent</b>	<b>Exemplary</b>
<b>Words and Definitions</b>	Defines fewer than 7 words correctly	Defines 7-9 words correctly	Defines all 10 words correctly
<b>Uses own words</b>	Few of the descriptions are in the student's own words	Most of the descriptions are in the student's own words	All of the descriptions are in the student's own words
<b>Analogies</b>	Fewer than 7 of the analogies are illustrated, neat and appropriate for the word	8-9 of the analogies are illustrated, neat and appropriate for the word	All 10 of the analogies are illustrated, neat and appropriate for the word
<b>Descriptions</b>	Fewer than 7 of the comparisons of the cell parts to the analogies make sense. Little to no detail.	8-9 of the comparisons of the cell parts to the analogies make sense and are detailed	10 of the comparisons of the cell parts to the analogies make sense, are detailed and go above and beyond in their descriptions
<b>Overall appearance of the final product</b>	Collage appears to be thrown together (messy), lack of effort and organization apparent	Mostly neat and organized, good effort apparent	Neat and organized. Excellent effort apparent, above and beyond
<b>Spelling and Grammar</b>	More than 3 spelling or grammatical errors	More than 2- 3 spelling or grammatical errors	No more than 1 spelling or grammatical error

Total \_\_\_\_\_/4