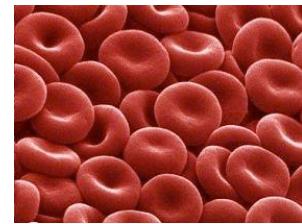


**Campaigning for Organelles – 50 points.**

**Background:** All living organisms are made of cells. A cell is the smallest structural unit of life. Each cell is composed of organelles that all carry out different functions to support the cell. The cells are often compared to factories where everybody has a different job, but works together to accomplish the same goal.



red blood cells

Finish this analogy: If a cell is a factory, the organelles are \_\_\_\_\_.

**Letter**

To: All Organelles

From: Cell Factory Management

RE: Lay Offs

To all Organelles-

Please be advised that the cell factory must shut down one organelle due to financial difficulty. We regret any inconvenience this may cause the workers at the organelle level that get laid off. We consider the workers at each organelle experts about their organelle. The company has decided to let the local community decide on whom to “vote off the island”. You need to defend your profession, and you have just enough money for one advertisement. In this ad, you want to sell why you should stay. Alas, since your opponents will resort to smear tactics, you must beat them to the punch. Therefore, your television ad may attack another organelle. You only have three minutes for each ad, so you must be organized and thorough.

**To avoid layoffs, all ads must include:**

1. Description of the structure of your organelle.
2. Poster with a picture of the organelle.
3. Description of where your organelle is in the cell factory.
4. Details about how your organelles function is essential to the workings of the whole cell. In other words, what would life in the cell be like without you?
5. An analogy that describes (for the non-cellular members on the board) what your organelle would do if it belonged to a regular factory.

**Assignment:** You will work in your lab groups on this project. Each group will pick a card with a cell organelle on it. You will have to research the function and role the organelle plays in the cell and you will develop an informative poster for your peers. **Friday, you will present your findings on a poster to the class.** Everyone in the lab group will receive *the same homework grade*, so it crucial that you all work together and stay on task to finish this assignment!

Beggs/Choi

Honors Biology

\*\* To save time – because you are in a **time crunch**—divide the 4 roles listed below in the grading rubric amongst yourselves.

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

Date: \_\_\_\_\_ Period \_\_\_\_\_

**Artist:** Draws picture of organelle, and lists information in clear, concise bullets.

**Data collectors:** (All of the group should help in this.)

**Timekeeper:** keeps group on track – poster must be finished today! Helps consolidate information into bullets for the poster and for the presenter.

**Presenter:** Gives the main points about the organelle in class on Friday. (Must be less than 3 minutes!)

**Campaign Advisor:** Develops catchy campaign slogan, and appeal for the organelle.

**Write the name(s) of the person(s) who contributed to each role below:**

Artist: \_\_\_\_\_

Timekeeper: \_\_\_\_\_

Presenter: \_\_\_\_\_

Campaign Advisor: \_\_\_\_\_

### **☒ Grading Rubric ☒**

<p><b>Poster: 10 points</b></p> <p>5 points: Presentation</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Is the poster neat and easy to read?</li><li><input type="checkbox"/> Is the title big enough for people to see from across the room during your presentation?</li><li><input type="checkbox"/> Does the drawing clearly illustrate the organelle?</li><li><input type="checkbox"/> Does it use the space well? (Not too much blank space?)</li><li><input type="checkbox"/> Are there no wrinkles, tears, etc?</li></ul> <p>5 points: Information</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Is the information clear and organized?</li></ul>	<p><b>Data Collection: 10 points</b></p> <p>5 points: Function</p> <ul style="list-style-type: none"><li><input type="checkbox"/> What is the function of the organelle?</li><li><input type="checkbox"/> Why does the cell need this organelle?</li></ul> <p>5 points: Other</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Is this organelle found in plant cells, animal cells, or both?</li><li><input type="checkbox"/> Other, interesting information you think your peers should know and understand about this organelle.</li></ul>
<p><b>Campaign Slogan/Advertisement: 10 points</b></p> <p>5 points: Campaign Slogan</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Is the analogy of the cell organelle to a component of factory clear and understandable?</li></ul> <p>5 points: creativity</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Is the idea for the campaign slogan creative, and interesting to your audience?</li></ul>	<p><b>Presentation: 10 points</b></p> <p>5 points: Time Management</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Was the group ready to present as soon as the last group finished their presentation?</li><li><input type="checkbox"/> Was the presentation less than 3 minutes?</li></ul> <p>5 points</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Was all of the information stated clearly?</li></ul>
<p><b>Participation: 10 points</b></p> <p><input checked="" type="checkbox"/> <i>Each person will be given an individual grade on participation points!</i></p> <ul style="list-style-type: none"><li><input type="checkbox"/> <b>Thursday:</b> Your peers will assess how much work you contributed to the project.</li><li><input type="checkbox"/> <b>Friday:</b> Ms. Beggs and/or Ms. Choi will assess how well you listened to the presentations.</li></ul>	

**Best of luck, & may the best organelle win!!!**

Special thanks to Stephanie Robinson for being the cell factory liaison to the organelles!