

Name _____ Class Period _____ Due Date _____

Cells Choice Board

Directions Choose one of these options to complete.

<p>Create a fictional city where each part of the city represents an organelle in the cell. You may choose either a plant cell or an animal cell for your city. Label all the city parts, the organelles represented and WHY you chose it to represent that part of the city. For example, the city garbage department would be the lysosomes because they take care of the trash. Name your city!</p>	<p>Create an organelle amusement park map for a park which has attractions, shows, dining and shopping and compare these to the parts of the cell. For example, you might want visitors to ride the Ribosomes Rampage so they could watch proteins synthesize before their very eyes! Pick either a plant or animal cell and include each organelle and its function in a ride, show, restaurant or shopping area. Name your amusement park!</p>	<p>Find a magazine or newspaper picture of an everyday object which has a similar function as each cell structure. Write an analogy to show the similarity between the cell part and the everyday object. Be sure to explain the reasoning behind your analogies. (The nucleus is like a brain because it controls and coordinates the activities of the whole cell in the same way the brain controls and coordinates activities of the body.)</p>										
<p>Compare an animal or plant cell to a school. Choose parts of the school that have similar jobs as the organelles in your chosen cell. Draw a picture of the school and label each area. Also, explain the comparison of the cell part to the school part on the picture.</p>	<p>You come up with your own comparison! <i>Follow the instructions for the city or school.</i></p>	<p>CELLS Choice Board Rubric</p> <table border="1"> <thead> <tr> <th>Area</th> <th>Points Possible</th> </tr> </thead> <tbody> <tr> <td>All required organelles (13 total) & All required parts of the chosen project are included</td> <td>10</td> </tr> <tr> <td>The comparison/analogy is clear and makes sense</td> <td>13</td> </tr> <tr> <td>Project is neat, creative & best work</td> <td>7</td> </tr> <tr> <td>TOTAL</td> <td>30</td> </tr> </tbody> </table>	Area	Points Possible	All required organelles (13 total) & All required parts of the chosen project are included	10	The comparison/analogy is clear and makes sense	13	Project is neat, creative & best work	7	TOTAL	30
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The following organelles should be included in each project:

BASIC 11

1. Cell Membrane
2. Nucleus
3. Nucleolus
4. Mitochondria
5. Lysosome
6. Vacuole
7. Endoplasmic Reticulum
8. Chromatin/Chromosomes *(inside the nucleus, but not visible)*

9. Cytoplasm
10. Ribosome
11. Golgi Apparatus

OTHERS

- Cell Wall (PLANT CELL)
- Chloroplast (PLANT CELL)
- Centriole (ANIMAL CELL)
- Flagella (ANIMAL CELL)

Organelles of the Cell

Use this chart to help you with your project.

Cell Part	Function	Picture	Way to Remember (comparison)
Plasma Membrane (Cell Membrane)			
Cytoplasm			
Ribosomes			
Endoplasmic Reticulum			
Golgi Apparatus			
Mitochondria			
Lysosomes			
Vacuole			
Chromatin/ Chromosomes			
Nucleus			
Nucleolus			
Centrioles (animal cell only)			
Flagella/Cilia (animal cell only)			
Cell Wall (plant cell only)			
Chloroplasts (plant cell only)			

