

**Cell Organelle Choice Board Portfolio****DUE DATE:** \_\_\_\_\_

For this portfolio project you will complete 3 different types of assignments as we learn about the parts of the cell. You are responsible for completing 3 blocks of the table below. Your 3 choices **MUST** be sequential [A + B + C] containing each assessment type. The different types of presentation are; 1. Graphic Organizers 2. Drawn / Labeled Illustrations 3. Written Essay Arguments. Please refer the option modeled for you to see what each type should look like.

**Cell Organelle Choice Board Option Chart**

<p><b>Graphic Organizer (15 pts)</b></p> <ul style="list-style-type: none"> <li>Completed on a clean piece of computer paper</li> <li>Should be large at least 2/3 of the page</li> <li>Written in pen</li> </ul>	<p><b>A.1.</b> Create a Venn Diagram that compares &amp; contrasts Prokaryotic &amp; Eukaryotic Cells (3 characteristics in each column)</p>	<p><b>A.2.</b> Create a Venn Diagram that compares Prokaryotic, Animal AND Plant cells. (at least 3 characteristics in each column)</p>	<p><b>A.3.</b> Create a flow chart / sequence map that demonstrate the relationships of 5 organelles + the cell membrane. Answer the question: How are the organelles interconnected?</p>
<p><b>Drawing (20 pts)</b></p> <ul style="list-style-type: none"> <li>Completed on clean piece of computer paper</li> <li>Should be large at least 2/3 of the page</li> <li>Colored, labels clear</li> </ul>	<p><b>B.2.</b> Draw &amp; Label a Eukaryotic Cell (animal OR plant cell). (Should have at least 8 organelles / structures)</p>	<p><b>B.3.</b> Draw &amp; Label both a Plant AND Animal cell. Use ONE label / color for organelles that are shared. (Should have at least 8 organelles / structures)</p>	<p><b>B.1.</b> Draw &amp; Label a Prokaryotic Cell. (Should have at least 4 organelles / structures)</p>
<p><b>Essay (45 pts)</b></p> <ul style="list-style-type: none"> <li>2 pages hand written, no spaces</li> <li>Completed on clean piece of notebook paper</li> <li>Introduction, Thesis, Body paragraphs that support thesis, Conclusion</li> <li>Written in pen</li> <li>Sources included at the end of essay</li> </ul>	<p><b>C.3.</b> Thesis: The overall function (its ability to survive &amp; reproduce) occurs because of the interaction of its organelles. (Choose 4 organelles of a eukaryotic cell &amp; explain how their interaction allows the whole cell to thrive)</p>	<p><b>C.1.</b> Thesis: The structure of an organelle is directly related to its function. (Choose 1 organelle of a eukaryotic cell &amp; describe how its structure is related to its function)</p>	<p><b>C.2.</b> Thesis: The structure of an organelle is directly related to its function. (Compare &amp; Contrast the Mitochondria &amp; the Chloroplast in regards to their structure &amp; function. Include what type of cells have each)</p>

How its scored:

- **75 points** / You must choose an option from each row & be able to draw a line thru each option (A+B+C)
- **10 points** / Turn in this sheet with your portfolio
- **15 points** / On time (you loose 5 points per day / after 3 days work will not be accepted)
- Each row is designed to have 3 levels of difficulty (ex A.1. = low difficulty & A.3. = high difficulty)
- If your choose an option that has all level 3 difficulty you can earn **5 points** extra for each section.

My Choices: (remember they must be sequential on the table / think *tic tac toe*)

**G.O.** - \_\_\_\_\_ , **D.** - \_\_\_\_\_ , **E.** - \_\_\_\_\_

ARC Biology Unit 1

**Scoring Rubric**

<b>G.O. Option</b> _____	15 points	10 points	5 point	0 point	Total		
<b>Graphic Organizer (15 pts)</b>	<ul style="list-style-type: none"> <li>- Correct total number of characteristics complete</li> <li>- each characteristic used correctly</li> <li>- Clean sheet of paper</li> <li>- Correct size</li> <li>- In pen</li> </ul>	<ul style="list-style-type: none"> <li>- 2/3 of the characteristics complete</li> <li>- 2/3 characteristic used correctly</li> <li>- Clean sheet of paper</li> <li>- Correct size</li> <li>- In pen</li> </ul>	<ul style="list-style-type: none"> <li>- 2/3 of the characteristic complete or characteristics used correctly (but not both)</li> <li>- Clean sheet of paper</li> <li>- Incorrect size or not in pen</li> </ul>	None of the requirements complete or present			
<b>D. Option</b> _____	20 points	15 points	10 points	5 points	0 points	Total	
<b>Drawing (20 pts)</b>	<ul style="list-style-type: none"> <li>- Cell(s) drawn correctly</li> <li>- Correct number of structures identified</li> <li>- In Color, clean paper</li> <li>- Correct Size</li> </ul>	<ul style="list-style-type: none"> <li>- 2/3 Cell(s) drawn correctly or Correct number of structures identified (1 must be all correct)</li> <li>- In Color, clean paper</li> <li>- Correct Size</li> </ul>	<ul style="list-style-type: none"> <li>- 2/3 Cell(s) drawn correctly</li> <li>- 2/3 Correct number of structures identified</li> <li>- Not in Color, clean paper or Correct Size (one must be all correct)</li> </ul>	<ul style="list-style-type: none"> <li>- 1/3 Cell(s) drawn correctly</li> <li>- 1/3 Correct number of structures identified</li> <li>- Not in Color, clean paper</li> <li>- Incorrect Size</li> </ul>	None of the requirements complete or present		
<b>E. Option</b> _____	45 points	35 points	25 points	15 points	5 points	0 points	Total
<b>Essay (45 pts)</b>	<ul style="list-style-type: none"> <li>- 2 pages hand written, no spaces</li> <li>- Contains correct number of organelles / structures(10 pts)</li> <li>- Contains all parts of essay; Thesis... (10 pts)</li> <li>- Completed on neat piece of paper</li> <li>- Arguments are clear &amp; precise</li> <li>- In pen</li> <li>- Sources</li> </ul>	<ul style="list-style-type: none"> <li>- 2 pages hand written, no spaces</li> <li>- Contains 2/3 correct number of organelles / structures(10 pts) or 2/3 parts of essay; Thesis... (1 must be all complete)</li> <li>- Completed on neat piece of paper</li> <li>- Arguments are clear &amp; precise</li> <li>- In pen</li> <li>- Sources</li> </ul>	<ul style="list-style-type: none"> <li>- 1 page hand written, no spaces &amp; contains 2/3 correct number of organelles / structures or 2/3 parts of essay; Thesis... (1 must be all complete)</li> <li>- Completed on neat piece of paper</li> <li>- Arguments unclear</li> <li>- In pen</li> <li>- Sources</li> </ul>	<ul style="list-style-type: none"> <li>- 1 pages hand written, no spaces &amp; contains 1/3 correct number of organelles / structures</li> <li>- 2/3 parts of essay; Thesis... (1 must be all complete)</li> <li>- Sloppy, paper not neat</li> <li>- Arguments unclear or</li> <li>- In pen</li> <li>- No Sources</li> </ul>	<ul style="list-style-type: none"> <li>- Less than 1 pages hand written, no spaces &amp; contains 1/3 correct number of organelles / structures</li> <li>- 1/2 of essay missing</li> <li>- Sloppy, paper not neat</li> <li>- Arguments unclear or</li> <li>- Not in pen or no Sources</li> </ul>	None of the requirements complete or present	

**Total Score:** \_\_\_\_\_ / 75