The Learning Cycle Evaluation Directly assesses the Performance Expectation:

**Performance Expectation: MS-LS1-2:**Develop and use a model to describe the function of a cell as a whole and ways the parts of cells contribute to the function.

The students will be evaluated on their ability to draw a model to demonstrate the function of the 6 organelles. This evaluation be creating an AVID One-Pager, which has multiple parts. The information it should include is:

1. Draw 1 model of a plant cell and label 6 organelles.
2. List the 6 organelles’ function in the cell? (Cell membrane, cell wall, nucleus, mitochondria, chloroplast and vacuole)
3. Explain how 3 organelles function help a cell stay alive.
4. Explain how the other 3 organelles helps a whole plant live. (Use each organelle for 3 or 4)
5. Compare and contrast your plant cell to an animal and it cells.

**One-Pager**

A One-Pager is a creative response to your learning experience. It allows you to respond imaginatively while being brief and concise in making connections between words and images. We think about what we see and read differently when we are asked to do something with what we have seen or read. We learn best when we create our own ideas. Your personal thinking about what you have experienced should be understood by the audience that views the One-Pager.

Follow this format for your One-Pager.

Setup:

* Use unlined white paper.
* Title the One-Pager appropriately to reflect the content.
* Use colored pens, pencils, or markers.
* Fill the entire page.
* Be purposeful about the arrangement of your One-Pager. For example, have a reason for using a certain color or for placing an object in a certain place. You may attach items to your One-Pager for your model if you like. You can make flaps to cover info.
* Use three visual images, either drawn or cut out from magazines, to create a central focus to your page. You have to draw your plant cell.
* Place five essential vocabulary words/phrases around the images. These terms/words/phrases should be related to the image and the unit. Example: multicellular, homeostasis, mitochondria or plants are producers.
* Put a symbolic colored border around the edges of the page.
* On the back, write 2 Costa’s Level 2 or 3 questions and answer them.
* On the back, write your name.

Content:

* Draw at least one plant cell and label the 6 parts and their functions
* Explain how each organelle either helps the cell or whole organism survive.
* Contrast your plant cell to an animal cell.
* Summarize the main idea of your One-Pager.

ROUGH DRAFT: Here’s a graphic organizer for the info that needs to be in your final One-Pager

**Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| --- |
| **Draw 1 model of a plant cell and label 6 organelles.** |
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| --- | --- |
| **Organelle** | **Function in a Plant Cell** |
| Cell Membrane |  |
| Cell Wall |  |
| Nucleus |  |
| Mitochondria |  |
| Chloroplast |  |
| Vacuole |  |

|  |  |
| --- | --- |
| Organelle | How it keeps a Plant CELL alive |
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| --- | --- |
| Organelle | How it keeps a Plant ORGANISM alive (You have to use different organelles) |
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|  |  |

Compare and contrast your plant cell to an animal cell

|  |  |  |
| --- | --- | --- |
| **Plant Cells** | **Both** | **Animal Cells** |
|  |  |  |