**Cells Choice Board Assignment 3**

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| **CELL ANALOGY:**   * Design a colorful poster that represents a cell. You will compare the organelles of a plant or animal cell to a structure/place/etc. of your choosing. * For example you could compare the parts of a cell to a school, a mall, a soccer field, the Braves stadium, etc. * Decide what part of the cell and each organelle is represented by the structure or place you choose. * On a piece of poster paper or computer paper, draw the layout of your analogy in color and with labels. Go over all your labels in pen. Come up with a creative name for analogy. * Attach a piece of paper to your poster that explains why each part of the structure/place represents a certain organelle. Here is an example of a explanation sentence: “The city hall represents the nucleus because it is the control center of the city. This is similar to a nucleus’ job, which is to control a cell.” * Keep in mind the part of the structure/place’s job should be similar to the job that the organelle does for the cell. An explanation of this should be included in your sentences. | **BUILD or BAKE a CELL:**   * For this project, you will build or bake a model using whatever materials you want to represent all the organelles in a plant cell. * You must have an object or food item in your model to represent every organelle in your cell. Pay attention to where they go in your model, what they look like, their size, etc. They should be representative of the real organelles in a cell. * Attach a piece of paper to your model explaining what item represents each organelle. Here is an example of an explanation sentence: “The large cookie in the middle of my dish represents the nucleus because it is a large organelle in the middle of the cell. The nucleus is the control center of the cell and also stores DNA (which are the sprinkles on my cookie)!” * To demonstrate your knowledge of what the organelles DO, please include their **function** in your sentences. | **PAPER BAG PLANT CELL:**   * Obtain a brown paper lunch sack from the teacher. * Use a single-hole punch to punch holes throughout the bag to show that the cell membrane is permeable. * All 12 organelles must be included, decide what items you could place in the bag to represent each cell organelle. * Gather the items and add them to the bag. * If you do not have all of the actual items available, you can print a picture the item and place it in the bag. * Attach a written explanation about why you chose each object to represent each organelle. * *Hint: the cell wall must be showing on the outside of the paper bag.* |

**Checklist for Cells Choice Board**

**Cell Analogy**

* All 12 organelles are accurately represented \_\_\_\_\_\_/18 pts
* Accurate explanation of each organelle and structure/place \_\_\_\_\_\_/18 pts **I chose to complete the**
* Poster is colorful & neat \_\_\_\_\_\_/12 pts

**Build or Bake a Cell**

* All organelles are present in model \_\_\_\_\_\_/12 pts
* Explanation of each organelle & object included \_\_\_\_\_\_/12 pts
* Organelle & function are accurately explained \_\_\_\_\_\_/24 pts **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Paper Bag Plant Cell**

* All objects or items are included for all 12 organelles \_\_\_\_\_\_/12 pts **for Assignment 3 of my**
* Explanations are included for all 12 objects \_\_\_\_\_\_/12 pts **Cells Choice Board.**
* Explanations for each object accurately describe the organelle \_\_\_\_\_\_/24 pts