Mrs. Matson

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Creative Project: **3-D Model of a Plant or Animal Cell**

Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Students are asked to make a 3-D model of a plant or a model of an animal cell, label them with the cell parts, and briefly describe the purpose of each part or organelle.** Students have free choice as to what kind of materials and supplies they choose to use for the cells and its parts (i.e.: beans can be used to represent mitochondria). This is to be a **3-D** model representation of a cell, **not** a drawing, picture, or computer generated.

**- Labels to Include –** Your model must include the following labeled cell parts (organelles) with a brief description of their purpose (total of 6 items for animal cells and 8 items for plant cell):

* **Nucleus**

**Use the following pages in your HMH Georgia Science Workbooks to help you with this assignment:** 272-275

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* **Chromosomes**
* **Cell Membrane**
* **Cell Wall *(plant only)***
* ***C*ytoplasm**
* **Chloroplasts *(plant only)***
* **Vacuoles**
* **Mitochondria**

**- Grading Expectations –** Students are expected to **label** each cell part and **describe each label of your cell in your own words and with accuracy.** They will also be graded for **showmanship** and **creativity**. The “A” grade cell will be a believable cell made by using a **variety of colors**, **variety of mixed media** (not just one type of material to make the whole model), and **originality**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Rubric for 3-D Model of a Plant or Animal Cell | | | | | |
|  | **Zero (0)** | **One (1)** | **Two (2)** | **Three (3)** | **Four (4)** |
| **Content of Plant (8) or Animal Cell (6)** | 0-1  Items labeled | 2 animal  2-3 plant  Items labeled | 3-4 animal  4-5 plant  Items labeled | 5 animal  6-7 plant  Items labeled | 6 animal  8 plant  Items labeled |
| Accuracy | 0-1  Correct position | 2 animal  2-3 plant  Correct position | 3-4 animal  4-5 plant  Correct position | 5 animal  6-7 plant  Correct position | 6 animal  8 plant  Correct position |
| Showmanship & Creativity | Labeled only, no color | Labeled only, limited color | Labeled and varied colors | Labeled, varied colors, variety of mixed media | Labeled, varied colors, variety of mixed media, originality |
| Each label is described | No descriptions given to the labels | 1 or more incorrect descriptions | Each label is described accurately |  |  |

Score:

Brought in Late \_\_\_\_\_\_\_\_\_\_\_ (-15 points per day)

Final Score and Grade \_\_\_\_\_\_\_\_\_\_\_ /14 \_\_\_% Grade: \_\_\_