Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_ Block:\_\_\_\_

**Cell Model Project**

The purpose of this project is to make a model of a cell in order to identify the main detail and vocabulary of the organelles and function of a cell.

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

**Project Directions**

* You are to make a model of a plant or animal cell using household items. (Example: cotton, sponges, boxes, beads, pipe cleaners, ets)
  + *In order to receive an AD*, your cell model must be 3-D.
* Your cell can be no larger than 12’’X 12”X 12” unless pre-approved.
* Choose what type of cell you will build: an animal or plant cell. Include this label somewhere on your model.
* You must include at least 11 of the organelles listed below in your model.
* You must create a *typed key* that labels the organelles name and function.

**ANIMAL CELL ORGANELLES TO BE INCLUDED ON THE CELL:**

Cell Membrane nucleus nuclear membrane nucleolus

Cytoplasm ribosomes mitochondria chromosomes/chromatin

Vacuoles lysosomes golgi bodies endoplasmic reticulum

**PLANT CELL ORGANELLES TO BE INCLUDED ON THE CELL:**

Cell Membrane nucleus nuclear membrane nucleolus

Cell Wall ribosomes mitochondria chromosomes/chromatin

Vacuoles chloroplasts golgi bodies endoplasmic reticulum

Cytoplasm

|  |  |
| --- | --- |
| **Grading Criteria** |  |
| Criteria A: Knowing and Understanding Rubric | **\_\_\_\_\_/24** |
| At least 11 organelles are on the cell and labeled clearly. | **\_\_\_\_\_/10** |
| Neatness. Organelles are secure and do not fall off the cell. | **\_\_\_\_\_/10** |
| Creativity, uniqueness, & accuracy. Note: make sure the shape of your cell corresponds to the type of cell you have chosen. | **\_\_\_\_\_/10** |
| Your name, block, and the type of cell is clearly visible/labeled on the cell. | **\_\_\_\_\_/6** |
| 3-D Model of Cell | **\_\_\_\_\_/10** |
| TOTAL POINTS  AD: 70-62 PR: 61-52 BA: 51-42 MI: 41-32 | **\_\_\_\_\_/70**  **Grade:\_\_\_\_\_\_\_** |

Criteria A: Knowing and Understanding

|  |  |
| --- | --- |
| Achievement Level | Level Descriptor |
| 0 | The student does not reach a standard identified by any of the descriptors below. |
| 1-2 | The student is able to state scientific knowledge, apply scientific knowledge and understanding to suggest solutions to problems set in familiar situations, and interpret information to make judgments. |
| 3-4 | The student is able to outline scientific knowledge, apply scientific knowledge and understanding to solve problems set in familiar situations, and interpret information to make scientifically supported judgments. |
| 5-6 | The student is able to describe scientific knowledge, apply scientific knowledge and understanding to solve problems set in familiar situations and suggest solutions to problems set in unfamiliar situations, and analyze information to make scientifically supported judgments. |
| 7-8 | The student is able to explain scientific knowledge, apply scientific knowledge and understanding to solve problems set in familiar and unfamiliar situations, analyze and evaluate information to make scientifically supported judgments. |