**Cell Project: 3-D Model**

## Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Total Possible Points = 200

***\*\*Cell Project is due no later than Thursday, December 18th!!\*\****

**Part 1: 3-Dimensional Model**

Students are to create a 3-D Cell Model of **either** the plant cell or the animal cell. You may use any material you would like as long as your project isn’t too large. It **must** be 3-D and not just a drawing. Use the following checklist and attached rubric to guide your cell model.

**Either Cell Model Requirements:**

\_\_\_\_ must be 3-D

\_\_\_\_ must be labeled as Plant or Animal

\_\_\_\_ organelles must be labeled or key is attached ***with functions***

\_\_\_\_ organelles within the model must accurately portray the true organelle

\_\_\_\_ name and period must be somewhere visible on project

\_\_\_\_ rubric (with your name) is returned with project

**Animal Cell**

\_\_\_\_ cell membrane

\_\_\_\_ cytosplasm

\_\_\_\_ nucleus

\_\_\_\_ nuclear membrane

\_\_\_\_ nucleolus

\_\_\_\_ mitochondria

\_\_\_\_ golgi body

\_\_\_\_ rough endoplasmic reticulum

\_\_\_\_ smooth endoplasmic reticulum

\_\_\_\_ ribosomes

\_\_\_\_ vacuoles

\_\_\_\_ lysosomes

**Plant Cell**

\_\_\_\_ cell wall

\_\_\_\_ cell membrane

\_\_\_\_ cytoplasm

\_\_\_\_ nucleus

\_\_\_\_ nuclear membrane

\_\_\_\_chloroplasts

\_\_\_\_mitochondria

\_\_\_\_ golgi body

\_\_\_\_ rough endoplasmic reticulum

\_\_\_\_ smooth endoplasmic reticulum

\_\_\_\_ ribosomes

\_\_\_\_ vacuole

**Cell Project: Rubric**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **Below the Standard** | **Nearly Meets The Standard** | **Meets the**  **Standard** | **Exceeds the**  **Standard** |
| **3-D Model** | **Name and Period on**  **3-D Project** | Missing name and period completely  **(0 points)** | Has either name or period but not both  **(10 points)** | ----- | Name and period are on project  **(25 points)** |
| **Cell Type is Labeled (Plant OR Animal)** | Missing plant or animal label completely  **(0 points)** | ----- | ----- | Project is labeled as either plant or animal  **(25 points)** |
| **Presentation of Cell Model (Plant OR Animal)** | Cell model is not 3-D or is incomplete  **(0-25 points)** | Cell model is 3-D but inaccurate: misuse of organelles and/or poor use of materials  **(25-50 points)** | 3-D cell model looks good and has most organelles accurately represented; good use of materials  **(50-60 points)** | 3-D cell model looks very nice and has all organelles accurately represented; great use of materials; wonderful presentation  **(60-75 points)** |
| **Organelles Represented** | At least 6 organelles are represented in the model  **(0-25 points)** | At least 8 organelles are represented in the model.  **(25-50 points)** | At least 10 organelles are represented in the model.  **(50-60 points)** | Great looking model with all 12 organelles included.  **(60-75 points)** |

**Total Possible Points: 200**  **Final Grade:**