**Cell Project**

Objective: To design a three-dimensional model of a cell. All parts should resemble the actual structure of the cell parts. Each organelle should be clearly and neatly labeled. Attach this sheet to your model with your name on it. Reference p. 175 in your textbook for a quality picture.

The cell needs to include the following organelles:

Nucleus

Nucleolus

Nuclear Envelope

Endoplasmic Reticulum

Golgi apparatus

Ribosome

Cell Membrane

Mitochondrion

Lysosomes

Vacuole

Useful Tips:

- Cell: use a shoe box, gift box, a Styrofoam ball cut in half, or a round object such as an aluminum pan.

- Organelles: useful materials include pipe cleaners, construction paper, aquarium stones, dry bean, or dry pasta.

- Do not use food or things that would melt/decay. i.e. no Jell-O or candy models.

- Be creative and feel free to come talk to me for ideas.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Grading Criteria** | **Possible Points** | **Points Received** |
| Name of Student | 15 |  |
| All Organelles Included | 25 |  |
| All Organelles Labeled | 20 |  |
| Accuracy in Organelles Structure | 20 |  |
| Neatness | 10 |  |
| Creativity | 10 |  |
| **Total Points** | 100 |  |

**Disease Project**

Students will develop a poster for his or her assigned disease. The poster will include the disease’s:

* common name
* scientific name
* if it’s a virus, bacteria, or fungus
* how it is contracted
* what body systems are effected
* symptoms of the disease
* treatment for the disease
* at least one picture
* other interesting facts

The poster needs to be neat and creative. It should have some type of images or pictures present. Students will present the posters to the class in a creative manner. Some ideas for presentations are a song, a rap, a poem, a skit (with a fellow classmate), or a video.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Disease\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
|  **Grading Criteria** |  **Possible Points** | **Points Earned** |
| Name of Disease | 5 |  |
| Scientific Name | 10 |  |
| Virus/Bacteria/Fungi | 10 |  |
| How it is contracted | 10 |  |
| Affected Body Systems | 10 |  |
| Symptoms  | 10 |  |
| Treatment  | 10 |  |
| Picture | 5 |  |
| Other Interesting Facts | 5 |  |
| Presentation | 25 |  |
| Total | **100** |  |

**Human Body Project**

Each group is responsible for educating the class on their assigned body system(s). Each group must construct a poster displaying important information for each system and include a visual or graphic related to their subject. The students should read over the text in the book as a reference and present the material in a concise, yet accurate manner. Students need to include:

* functions of the system
* location in the body
* organs or tissues include
* responsibilities and how it works
* problems or common diseases associated with the system
* fun fact
* at least two pictures

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Topic\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
|  Grading Criteria |  Possible Points | Points Earned |
| Functions  | 10 |  |
| Location in the Body | 10 |  |
| Organs or Tissues  | 20 |  |
| Responsibilities  | 20 |  |
| Common Diseases  | 20 |  |
| Fun Fact | 10 |  |
| Pictures | 10 |  |
| **Total** | **100** |  |