Science 8: Unit 2 - Cells & Systems

Performance Task: *Disorders of the Body*

Due date:

1. Select one of the human body systems.
   1. Explain the purpose of that system and how that purpose is achieved. Why is this purpose a crucial function of human life?
   2. Describe the major organs, tissues and cells in that system. Why are these specialized and how do they contribute to the purpose of that system?
   3. Describe what activities are necessary to keep this body system healthy.
2. Select a disease or disorder of that human body system.
   1. Describe the disease or disorder. Why is it a problem?
   2. What research has led to the discovery of this disease? When was this research completed? Who was involved?
   3. What treatments are available for this disease or disorder? How effective are they? What research led to the development of these treatments?

Assignment format:

* You will present your research on the above criteria.
* Your presentation should contain photos that support your research.
* All members will be required to participate in both the research and presentation components.

You will be given three classes in the computer lab to work on this assignment. You may be required to put together and practice the presentation on your own time.

You will be graded according to the attached rubric:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria\Score** | **4 Excellent** | **3 Proficient** | **2 Satisfactory** | **1 Limited** |
| **Description of Human Body**  **\_\_\_\_\_/4** | All points included and well described; purpose of system, major organs/tissues/cells, requirements for maintaining healthy system. | All points included; purpose of system, major organs/tissues/cells, requirements for maintaining healthy system. Lacking some detail in description. | Two points included; purpose of system, major organs/tissues/cells, requirements for maintaining healthy system. One or two descriptions lacking detail. | One point included; purpose of system, major organs/tissues/cells, requirements for maintaining healthy system. Two or three Descriptions lacking detail. |
| **Description of Disorder/**  **Disease**  **\_\_\_\_\_/4** | All points included and well described; description of the disease, why it is a problem and how it is treated, research that led to this information | All points included; description of the disease, why it is a problem and how it is treated, research that led to this information. Lacking some detail. | Two of the required points included; description of the disease, why it is a problem and how it is treated, research that led to this information. Lacking some detail. | One of the required points included; description of the disease, why it is a problem and how it is treated, research that led to this information. Lacking detail. |
| **Collaboration**  **\_\_\_\_\_/4** | Evidence of higher-level understanding of the system in question and all diseases presented. | Proficient level understanding of the system in question and most of the diseases presented. | Satisfactory level understanding of the system in question and some of the diseases presented. | Lacking of understanding of the system in question and only knows of their disease. |
| **Conventions**  **\_\_\_\_\_\_/4** | Well-organized flow of ideas, writing is clear and organized using appropriate vocabulary.  Proper bibliography included with references and quotations | Organized flow of ideas, writing is clear and organized. Proper bibliography included lacks references and quotations. | Unclear flow of ideas, writing is vague and unorganized. Bibliography and references are included but not done properly. | No flow of ideas, writing is not authentic. No bibliography or references. |

*\* An additional 4 marks will be based on a peer evaluation from all members of each group.*