MYP science (biology) Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Blk: \_\_\_\_\_

**Immune System Unit Project**

Criterion A: Knowing and understanding

Criterion D: Reflections on the impacts of science

**Your task:**

* **You** are a lead scientist for the WHO (World Health Organization).
* **You** are investigatinga viral/bacterial/fungal **disease.**
* The United Nations is celebrating Universal Children’s Day, and they have asked you to **tell the story of your pathogen infecting a human body** to the children of the World! So make sure you are able to explain your info at a Grade 8 level!
* You may present your investigation **any** way you wish:
* Poster, comic strip, play script, short film, powerpoint, short story, etc…
* **Your project must include:**

a) **Introduction** (including the name of your disease and the pathogen)

b) **Method of Transmission** (how is the pathogen acquired?)

c) **First Line of Defense** (How does the pathogen get past it?)

d) **Innate Immune Response** AND **Acquired Immune Response**

e) **Symptoms** (How does it affect the body?)

f) **Treatment** (Vaccines? Antibiotics? Other medicine?)

g) **Prevention** (What can be done to avoid getting the disease?)

h) **Images, accurate information, professional** (legible and neat)

i) **Reference list in APA format** (full marks for In-Text citation)

* You will have two classes to **research** information about your chosen disease. Record your sources.

**Your project is due on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

Remember to include a reference list of your sources in APA format.

**Your work will be shared in class:**

Play will be performed!

Films will be shown!

Posters will be looked at!

Powerpoints will be presented!

Comics and stories will be read!

Criterion A: Knowledge and understanding

|  |  |
| --- | --- |
| Achievement level | Level descriptor |
| **0** | The student does not reach a standard described by any of the descriptors given below. |
| **1-2** | The student is able to:   * **Recall** scientific knowledge * Apply scientific knowledge and understanding to **suggest solutions** to problems set in **familiar situations** |
| **3-4** | The student is able to:   * **State** scientific knowledge * Apply scientific knowledge and understanding to **solve problems** set in **familiar situations** |
| **5-6** | The student is able to:   * **Outline** scientific knowledge * Apply scientific knowledge and understanding to **solve problems** set in **familiar situations** and **suggest solutions** to problems in **unfamiliar situations.** |
| **7-8** | The student is able to:   * **Describe** scientific knowledge * Apply scientific knowledge and understanding to **solve problems** set in **familiar situations and** **unfamiliar situations.** |

Criterion D: Reflections on the impacts of science

|  |  |
| --- | --- |
| Achievement level | Level descriptor |
| **0** | The student does not reach a standard described by any of the descriptors given below. |
| **1-2** | The student is able to:   * **State** the ways in which science is used to address a specific problem or issue. * **State** the implications of the use of science to solve a specific problem or issue, interacting with a factor. * **Apply** scientific language to communicate understanding but does so **with limited success.** * Document sources, **with limited success.** |
| **3-4** | The student is able to:   * **Outline** the ways in which science is used to address a specific problem or issue. * **Outline** the implications of the use of science to solve a specific problem or issue, interacting with a factor. * **Sometimes apply** scientific language to communicate understanding. * **Sometimes** document sources **correctly.** |
| **5-6** | The student is able to:   * **Summarize** the ways in which science is used to address a specific problem or issue. * **Describe** the implications of the use of science to solve a specific problem or issue, interacting with a factor. * **Usually apply** scientific language to communicate understanding **clearly and precisely.** * **Usually** document sources **correctly. (Reference list)** |
| **7-8** | The student is able to:   * **Describe** the ways in which science is used to address a specific problem or issue. * **Discuss and analyze** the implications of the use of science to solve a specific problem or issue, interacting with a factor. * **Consistently apply** scientific language to communicate understanding **clearly and precisely.** * Document sources **completely. (Reference list + In-Text citation)** |