**Viruses: A Collaborative Biology 11 Project**

**Objectives:**

After completing this project, you will be able to:

* Fully describe one viral disease including information regarding symptoms, prognosis, transmission and vaccines (if any).

**Instructions:**

* Working in a group of two, you will research one virus and add your virus research to the class collaborative Prezi. (*Everyone will need to register with Prezi and receive an invite from me to become an editor*)
* You will then present your research to the class.
* You will *need a minimum* of one book resource and one website resource from the list below.

Public Health Agency of Canada <http://www.phac-aspc.gc.ca/id-mi/index-eng.php>

Centers for Disease Control and Prevention [www.cdc.gov](http://www.cdc.gov)

Mayo Clinic <http://www.mayoclinic.org/diseases-conditions>

National Institute of Allergy and Infectious Diseases [http://www.niaid.nih.gov](http://www.niaid.nih.gov/)

World Health Organization <http://www.who.int/en/>

Following is a list of viral diseases that you may choose to research. Your group will sign up for only one virus:

* HIV/AIDS
* Ebola
* Genital Herpes
* Smallpox
* Polio
* Dengue Fever
* West Nile Virus
* Influenza
* Measles
* Hepatitis ABC
* Human Papillomavirus (HPV)
* Chicken Pox
* Mumps
* Yellow Fever
* Marburg
* SARS Coronavirus
* Common Cold

Your group will need to include the following information:

1. Basics: Common name and scientific name of virus. Picture of the virus. DNA or RNA genetic material? Viral envelope? Which countries are mostly affected and how many cases a year? What is the country of origin? When was it discovered and by whom?
2. Diagnosis: What is the name of the disease? What part or parts of the body are affected?
3. Symptoms: List the common initial signs of the disease. Do new symptoms develop as the disease progresses? What symptoms are characteristic of this disease? In other words, how is this disease distinguished from other, perhaps similar, diseases? Include a photo if the disease presents external characteristics.
4. Type of Transmission: How is the disease passed from person to person? What is the incubation period?
5. Treatment: How is this disease treated? Be sure to consider all aspects of treatment including medication, rest, etc. What can be done to prevent the disease or lower the risk of getting the disease?
6. Is there a vaccine for the disease? If yes, what type of vaccine is it? What is the recommended schedule of vaccination for this disease? Are booster shots required? Does the vaccine produce any side effects?
7. Prognosis: What is the chance of being cured if you contract this disease? If you are cured, can you get the disease again? What is the mortality rate?
8. References, additional information, interesting/scary facts, YouTube video (5 minutes or less) etc

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| CATEGORY | **4** | **3** | **2** | **1** |
| **Organization** | Information is very organized with well-constructed paragraphs and subheadings. | Information is organized with well-constructed paragraphs. | Information is organized, but paragraphs are not well-constructed. | The information appears to be disorganized. 8) |
| **Amount of Information** | All topics are addressed and all questions answered with at least 2 sentences about each. | All topics are addressed and most questions answered with at least 2 sentences about each. | All topics are addressed, and most questions answered with 1 sentence about each. | One or more topics were not addressed. |
| **Quality of Information** | Information clearly relates to the main topic. It includes several supporting details and/or examples.  **8** | Information clearly relates to the main topic. It provides 1-2 supporting details and/or examples.  **6** | Information clearly relates to the main topic. No details and/or examples are given.  **4** | Information has little or nothing to do with the main topic.  **2** |
| **Mechanics** | No grammatical, spelling or punctuation errors. | Almost no grammatical, spelling or punctuation errors | A few grammatical spelling, or punctuation errors. | Many grammatical, spelling, or punctuation errors. |
| **References** | All reference are accurately documented. | Most reference are accurately documented. | Few references are accurately documented. | No references documented. |
| **Listens to Other Presentations** | Listens intently. Does not make distracting noises or movements. | Listens intently but has one distracting noise or movement. | Sometimes does not appear to be listening but is not distracting. | Sometimes does not appear to be listening and has distracting noises or movements. |
| **Presentation Skills** | Stands up straight, looks relaxed and confident. Establishes eye contact with everyone in the room during the presentation. Speaks clearly and is well prepared and rehearsed. Not only reading. | Stands up straight and establishes eye contact with everyone in the room during the presentation. Speaks clearly but needs more preparation and less reading. | Sometimes stands up straight and establishes eye contact. Clear that rehearsal was lacking. Mostly reading directly from paper or presentation. | Slouches and/or does not look at people during the presentation while only reading. Student does not seem at all prepared to present. |