**Viral and Bacterial Infection Research Project**

* Working in a group of one or two, you will research one virus or bacteria and create an infographic. I suggest that you choose an infection that has affected someone you know, you have heard about in the news, or interests you because it is gross/unusual/scary. This assignment is due **next class**.
* You will *need a minimum* of one book resource and one website resource from the list below. You will need to properly cite the information and images you have used in MLA style.

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 viruses and bacteria that you may choose to research. Your group will sign up for only one.

**Viruses**

* HIV/AIDS
* Ebola
* Genital Herpes
* Smallpox
* Polio
* Zika
* Dengue Fever
* West Nile Virus
* Influenza
* Measles
* Hepatitis ABC
* HPV
* Chicken Pox
* Mumps
* Yellow Fever
* Marburg
* SARS Coronavirus
* Rabies
* Common Cold
* Hanta virus
* Epstein-Barr
* Other

**Bacteria**

* Anthrax
* Botulism
* Campylobacter
* Cholera
* Diphtheria
* Meningitis
* Salmonella
* Tetanus
* Typhoid
* Pertussis (Whooping cough)
* MRSA
* Shigella
* Trochoma
* Bubonic plague
* Tuberculosis
* Leptospirosis
* Gonorrhea
* Lyme disease
* Flesh-eating disease
* Pneumonia
* Syphilis
* Other

Here are some ideas for information that you may want to include on your infographic:

* Common name and scientific name of virus / bacteria.
* Picture of the virus / bacteria.
* In the case of viruses - DNA or RNA genetic material? Retrovirus? Viral envelope?
* In the case of bacteria – Form and arrangement? Gram+ or Gram- ?
* Which countries are mostly affected and how many cases a year? What is the country of origin? When was it discovered and by whom? Have there been any large outbreaks in history?
* Diagnosis/Symptoms: What is the name of the disease caused by the virus / bacteria? What part or parts of the body are affected? 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.
* In the case of viruses - Type of Transmission: How is the disease passed from person to person? What is the incubation period? Can you find the R-0? (R-naught)
* 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?
* Is there a vaccine for the disease? Before the vaccine versus after the vaccine, how has the number of deaths/cases per year changed?
* 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?
* Interesting/scary facts, etc.