**Bacteria/Virus Wanted Poster Research Project**

**Objective:** To understand how bacteria or viruses live, their pathology, and modes of transmission.

**Goal:** Research one bacterial or viral pathogen and produce a “Most Wanted” Poster.

Make a “Wanted Poster” for one of the Monerans (bacteria) or viruses listed below. Diseases and the pathogens that cause them are listed.

**The poster must include the following information in detail:**

1. Disease name and bacteria or virus that causes the disease (2 marks)
2. A photo (microscopic picture) or realistic drawing of the pathogen or organism. (5 marks)
3. Description of the microorganism includes characteristics (anaerobic, parasitic, etc.) (3 marks)
4. How does the microorganism attack or transmits the disease? (2 marks)
5. What kind of victims do the microorganisms attack? (2 marks)
6. What are the symptoms or injuries done by the disease? (3 marks)
7. Is the microorganism considered “armed and dangerous”?
Rate how dangerous this pathogen is. (3 marks)
8. How many victims does the microorganism infect? (2 marks)
9. Is there any immunity or vaccine against the disease? (3 marks)
10. What is the most effective weapon or treatment against the disease? (3 marks)
11. You must include color and design/organization for your poster. (4 marks)
12. Include citations on the back of the poster (4 marks)

 TOTAL: 36 MARKS

You will choose from one of the following diseases (2 bonus marks will be go students who submit posters on the least commonly chosen diseases – in other words, don’t choose the same disease as your classmates!)

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| **Bacterial Diseases** | **Pathogen** |
| Anthrax | *Bacillus antracius* |
| Whooping Cough | *Bordetella pertussis* |
| Botulism | *Clostridrium botulinum* |
| Gas Gangrene | *Clostridium perfringens* |
| Tetanus | *Clostridium tetani* |
| Diphtheria | *Corynebacterium diphtheria* |
| Acute Pyelonephritis | *Escherichina coli* |
| Tularemia or Rabbit Fever | *Francisella tularensis* |
| Acute Bacterial Meningitis | *Haemophilus influenza* |
| Leprosy | *Mycobacterium leprae* |
| Tuberculosis | *Mycobacterium tuberculosis* |
| Gonorrhea | *Neisseria gonorrhoeae* |
| **Bacterial Disease** | **Pathogen** |
| Spinal Meningitis | *Meisseria meningitides* |
| Rocky Mountain Spotted Fever  | *Rickettsia richettsii* |
| Typhus | *Rickettsia prowazekii* |
| Typhoid Fever | *Salmonella typhi* |
| Food Poisoning | *Salmonella typhimurium* |
| Dysentery | *Shigella dysenteriae* |
| Cavities | *Streptococcus mutans* |
| Scarlet Fever | *Streptococcus (Group A)* |
| Rheumatic Fever | *Streptococcus (Group A)* |
| Syphilis | *Treponema pallidum* |
| Yaws | *Treponema pertenue* |
| Cholera | *Vibrio cholerae* |
| Lyme Disease | *Borrelia burgdorferi* |
| Plague | *Yersinia pestis*  |

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| **Viral Diseases** | **Pathogen** |
| Chicken pox | *varicella-zoster virus* |
| Rabies | *rhabdovirus* |
| Measles | *Paramyxoviridae virus* |
| Influenza | *influenza virus A, B, C* |
| West Nile | *West Nile virus* |
| Polio virus | *polio virus* |
| Small Pox | *pox virus* |
| Hantavirus pulmonary syndrome | *Hantavirus* |
| Hepatitis A | *Hepatitis A virus* |
| Ebola | *Ebola virus* |
| AIDS | *Human Immunodeficiency Virus* |
| HPV | *Human Papillomavirus* |
| SARS | *SARS coronavirus* |

The due date for this poster is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Your partner for this poster is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

My chosen disease/pathogen: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_