**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:

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| **Required Information** | **Mark** |
| 1. Disease name and bacteria or virus that causes the disease | (2 marks) |
| 1. A photo (microscopic picture) or realistic drawing of the pathogen or organism. | (5 marks) |
| 1. Description of the microorganism includes characteristics (anaerobic, parasitic, etc.) | (3 marks) |
| 1. How does the microorganism attack or transmits the disease? | (2 marks |
| 1. What kind of victims do the microorganisms attack? | (2 marks) |
| 1. What are the symptoms or injuries done by the disease? | (3 marks) |
| 1. Is the microorganism considered “armed and dangerous”? 2. Rate how dangerous this pathogen is. | (3 marks) |
| 1. How many victims does the microorganism infect? | (2 marks) |
| 1. Is there any immunity or vaccine against the disease? | (3 marks) |
| 1. What is the most effective weapon or treatment against the disease? | (3 marks) |
| 1. You must include color and design/organization for your poster. | (4 marks) |
| 1. 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 Disease** | **Pathogen** | **Bacterial Disease** | **Pathogen** |
| Anthrax | Bacillus antracius | Spinal Meningitis | Meisseria meningitides |
| Whooping Cough | Bordetella pertussis | Rocky Mountain  Spotted Fever | Rickettsia richettsii |
| Botulism | Clostridrium botulinum | Typhus | Rickettsia prowazekii |
| Gas Gangrene | Clostridium perfringens | Typhoid Fever | Salmonella typhi |
| Tetanus | Clostridium tetani | Food Poisoning | Salmonella typhimurium |
| Diphtheria | Corynebacterium diphtheria | Dysentery | Shigella dysenteriae |
| Acute Pyelonephritis | Escherichina coli | Cavities | Streptococcus mutans |
| Tularemia or Rabbit  Fever | Francisella tularensis | Scarlet Fever | Streptococcus (Group A) |
| Acute Bacterial  Meningitis | Haemophilus influenza | Rheumatic Fever | Streptococcus (Group A) |
| Leprosy | Mycobacterium leprae | Syphilis | Treponema pallidum |
| Tuberculosis | Mycobacterium tuberculosis | Yaws | Treponema pertenue |
| Gonorrhea | Neisseria gonorrhoeae | Cholera | Vibrio cholerae |
| Lyme Disease | Borrelia burgdorferi | Plague | Yersinia pestis |

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

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

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

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