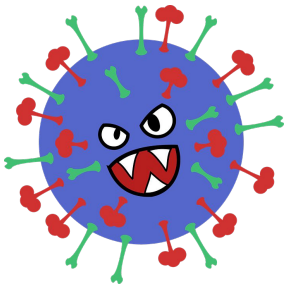
Epidemiology Project

You are working as an epidemiologist who studies virus outbreaks. A virus outbreak has begun at a local school, and reports indicate that it could spread quickly. As of now, patients are displaying symptoms that point to the virus being either measles or influenza, but medical professionals need your help to identify which virus it is and create a vaccine distribution plan. You will complete the activities below to help scientists understand:

- How to identify the virus (measles or influenza)
- How to assess the severity of the patient's condition
- How to stop the spread of the virus



Part 1: Watch this video on epidemiologists

- Answer the first question on your task sheet while/after watching.

Part 2: Understanding Measles and Flu

Read about Measles with a partner and answer the following questions on your paper, cite answers from the text.

1. What are the symptoms of measles?
2. How did the virus spread?
3. Who did the virus impact the most?
4. How is/was the virus stopped?
5. What is the role of vaccines in stopping the spread of the virus?

Observe Flu Data and read this fact sheet with your partner and answer the following questions on your paper, cite answers from the data.

1. What are the symptoms of flu?
2. How did the virus spread?
3. Who did the virus impact the most?
4. How is/was the virus stopped?
5. What is the role of vaccines in stopping the spread of the virus?

Part 3: Complete the Venn Diagram comparing and contrasting Flu and Measles

Part 4: Learn how vaccines work with this reading and video

Answer the following questions on your task sheet

1. Which type of vaccine would you use to prevent the measles? Cite evidence from the video and/or reading to support your answer.
2. Which type of vaccine would you use to prevent the flu? Cite evidence from the video and/or reading to support your answer.