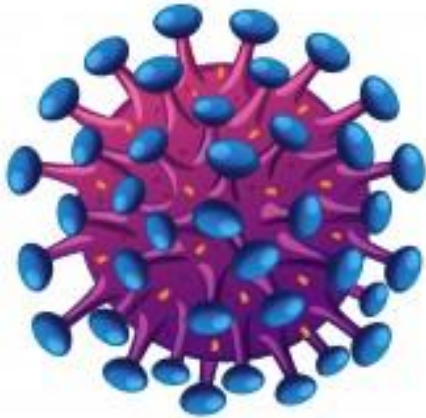
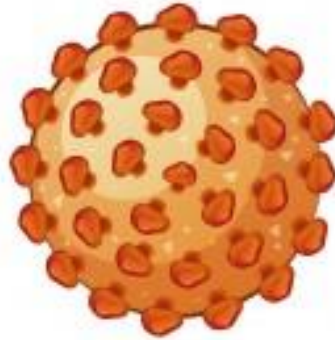


Types of Viral Diseases

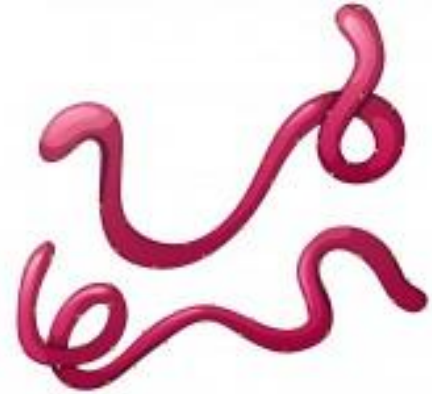
How do viruses make us sick?



HIV

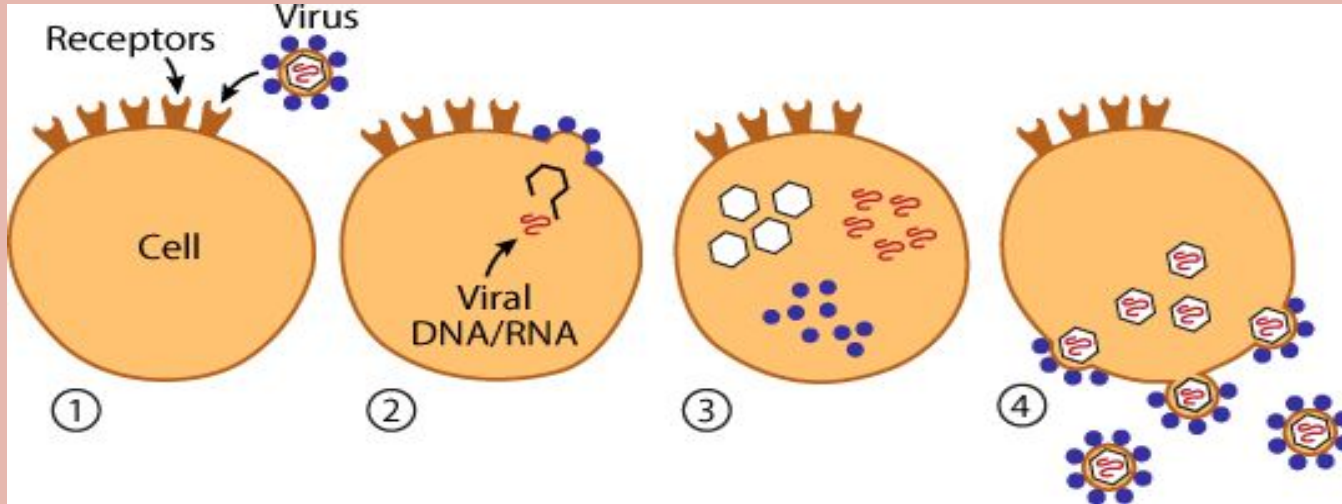


Hepatitis B



Ebola Virus

Virus Reproduction



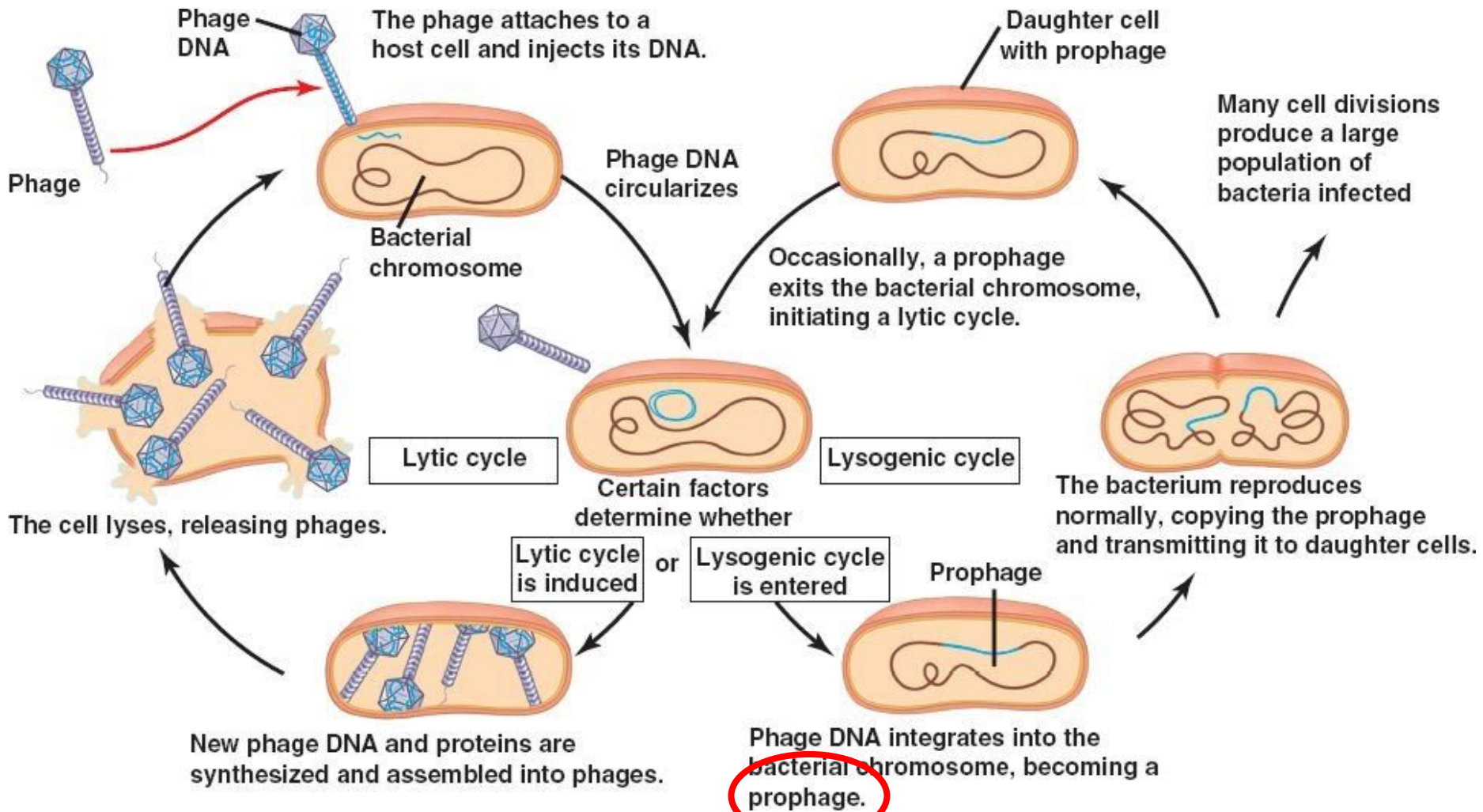
1. Attachment

2. Entry - the virus is taken into the cell

3. Synthesis - viral parts are made

4. Assembly of viral parts

5. Release - viruses leave host cell to infect new cells



The Story of Ebola

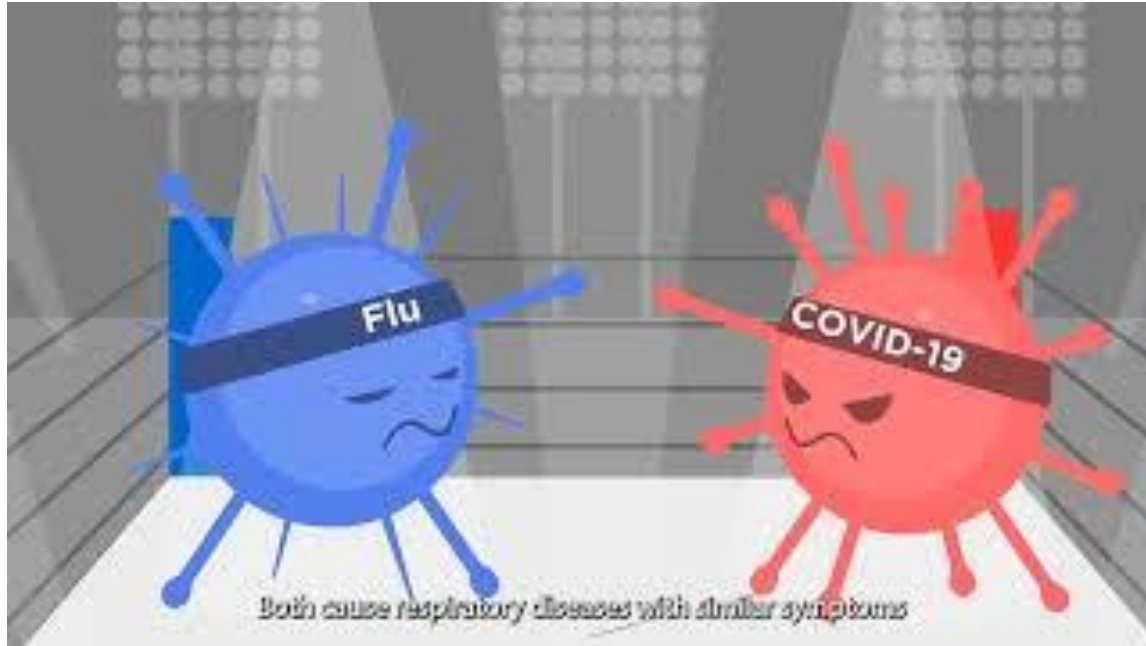




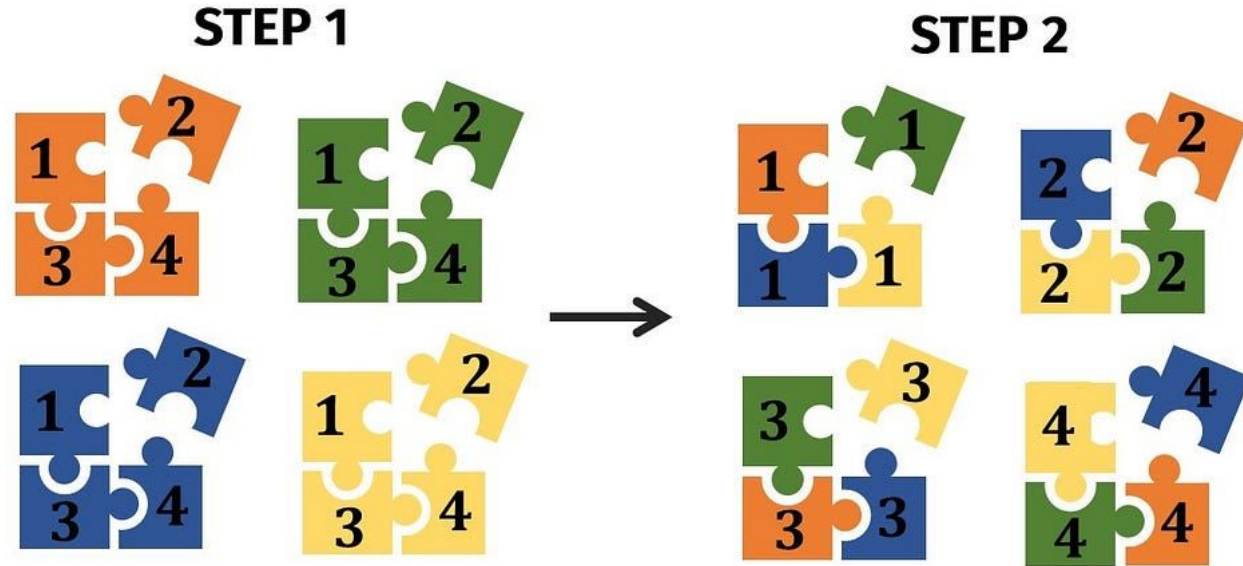
What is “**The Flu?**”

The influenza pandemic of 1918-1919 killed more people than World War I, at somewhere between 20 and 40 million people.

Coronavirus vs Flu virus



Jigsaw: Research a Disease Activity



Small groups work on a common task

Group members move to new groups to share what they learned

Jigsaw: Research a Disease Activity

You will each get a slip of paper with a number and a letter.

- **Number** will correspond to the disease you will be researching.
- **Letter** will be the group you will be sharing with in group sharing.

Using your laptops or phones, you will scan the QR codes on the next page and answer the questions on the worksheet.

Scan the QR code for the disease you are researching



**Group 1:
Norovirus**



**Group 2:
Influenza**



**Group 3:
Hepatitis B**



**Group 4:
Adenovirus**



**Group 5:
Measles**

Norovirus: <https://www.cdc.gov/norovirus/about/index.html>

Influenza:

[https://www.who.int/news-room/fact-sheets/detail/influenza-\(seasonal\)](https://www.who.int/news-room/fact-sheets/detail/influenza-(seasonal))

Hepatitis B:

<https://www.canada.ca/en/public-health/services/diseases/hepatitis-b.html>

Adenovirus: <https://www.cdc.gov/adenovirus/index.html>

Measles: <https://www.cdc.gov/measles/index.html>

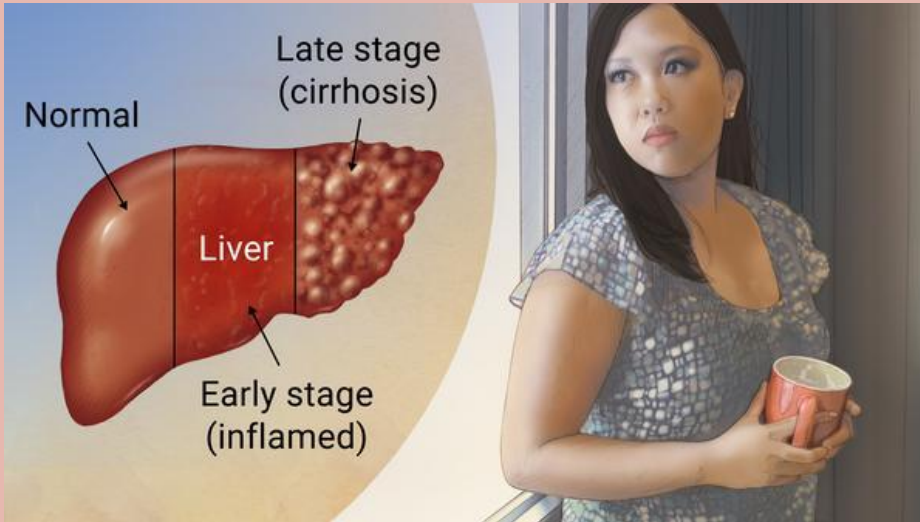
Norovirus














The highly contagious norovirus is difficult to kill with sanitizers and can easily contaminate foods, beverages, surfaces such as counters, food containers and utensils. The virus can live on surfaces for long periods of time.

Hepatitis (A, B, C)

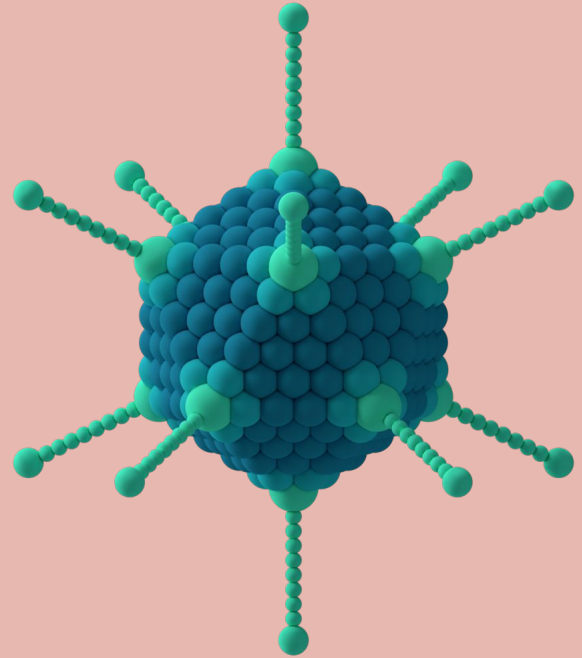
- Cure is only possible for Hepatitis C at the moment.
- Management of symptoms for Hep A & B only.



Virus	Transmission routes	Vaccine	Cure
A	A = vowel! rhymes with bowel  Fecal-Oral		 Self-limited disease
B	Body fluids  Blood  Semen  Vaginal fluid		
C	Circulation  Blood ¹		

Adenovirus

- Most common cause of the **common cold**
- Lasts between 1-2 weeks.



There is no vaccine for the cold, but biologists have been working to develop one.