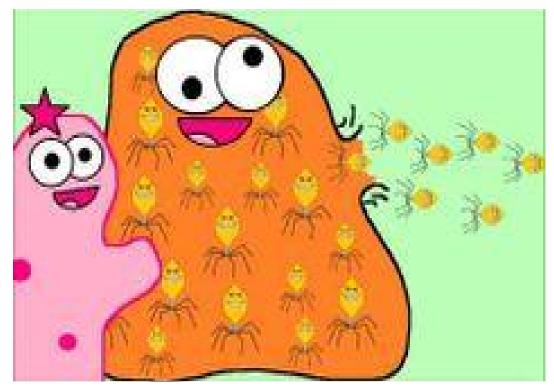
VIRAL INFECTIONS

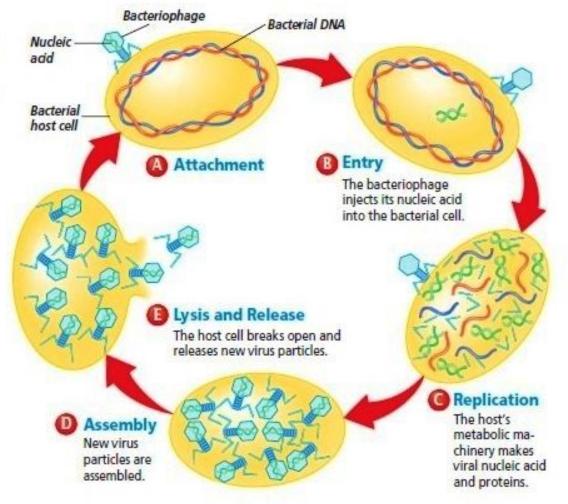
Once the virus is inside the host cell, 2 different processes may occur...

Lytic infection: virus enters a cell, makes <u>copies</u> of itself and causes the cell to <u>burst</u>... kills the cell





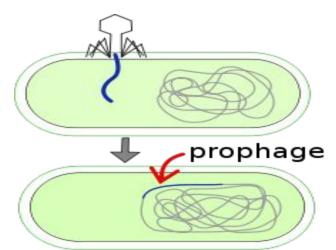
In a lytic cycle, a virus uses the host cell's energy and raw materials to make new viruses. A typical lytic cycle takes about 30 minutes and produces about 200 new viruses.

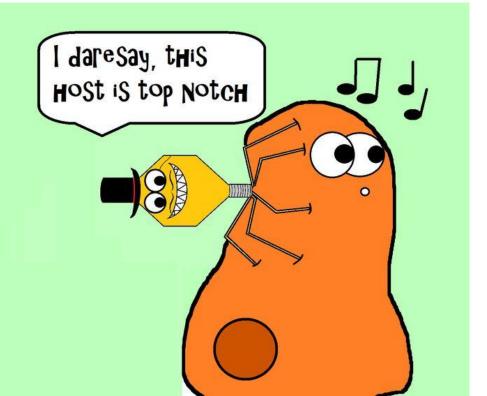


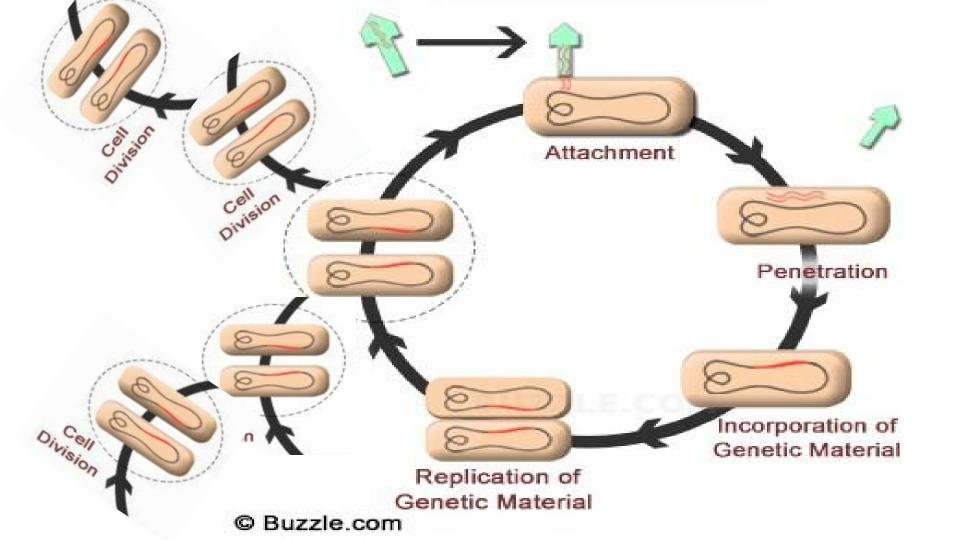
Lysogenic infections: a virus <u>integrates</u> its DNA into the <u>DNA</u> of the cell and the viral genetic information <u>replicated</u> with the host cell.

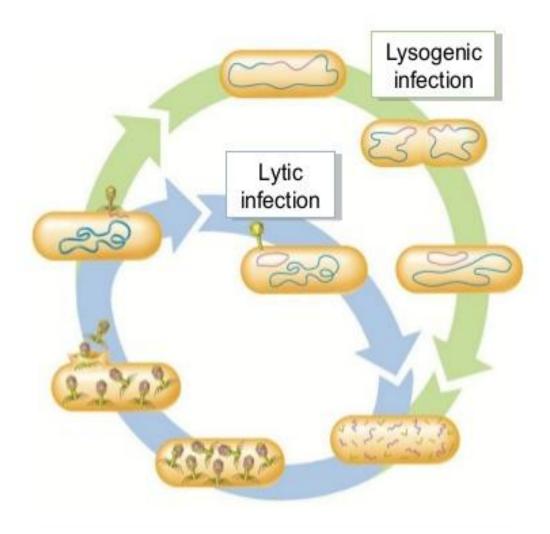


The viral DNA <u>embedded</u> in the host cell is called a **prophage**.









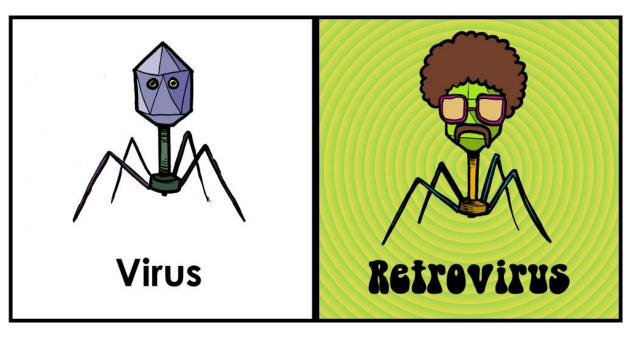
Eventually, a <u>prophage</u> will be activated and begin the <u>lytic</u> process of viral replication.

The host cell will be <u>destroyed</u>

Retroviruses contain <u>RNA</u>. Once they enter a cell they can make a DNA copy of their RNA and insert it to host DNA (like a prophage)

<u>Retro</u> = backwards

Which of these viruses contain DNA?



RNA

VIRUS REVIEW:

• What sort of living thing could you compare a virus to?

• Are viruses alive? Why or why not?

• How can we compare viruses to living cells?

