**Virus Guided Notes:**

1. Characteristics of Viruses

-Viruses are made of \_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_ surrounded by a protein coat called a \_\_\_\_\_\_\_\_.

-Though viruses have a lot of variety amongst themselves, they are all VERY MUCH \_\_\_\_\_\_\_\_\_\_\_ than a bacteria.

-Viruses \_\_\_\_\_\_\_\_\_\_ obtain and use energy (both characteristics of life)

-Viruses can \_\_\_\_\_\_\_\_\_\_\_\_\_, but only with the help of a \_\_\_\_\_\_\_\_.

\*\*\* Because viruses show some of the characteristics of living things, but not all, they are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Draw an adenovirus next to an E coli bacterium to compare their size.

1. Why do viruses make us sick?

-Viruses \_\_\_\_\_\_\_\_\_\_\_\_ normal cells by using them for \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

-Viruses \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ be treated with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. There are 2 ways in which viruses reproduce.
2. Lytic pathway:
3. Lysogenic pathway:

\*Viruses can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and then \_\_\_\_\_\_\_\_\_, but usually are not lytic, then lysogenic.

\*Viruses in the lysogenic cycle can express latency, meaning they:

1. Types of Viruses
2. Bacteriophages infect \_\_\_\_\_\_\_\_\_\_\_\_\_. These viruses can be used for genetically \_\_\_\_\_\_\_\_\_\_ bacteria.
3. Retrovirus is a virus that contains \_\_\_\_\_\_\_\_\_\_\_ instead of DNA. RNA is copied into DNA once inside the cell.
4. How do we prevent Viruses?
5. Vaccines:
6. WASH YOUR \_\_\_\_\_\_\_\_\_\_!
7. SAFE \_\_\_\_\_\_\_\_\_! (Having no sex at all is 100% effective!)
8. Be aware of vectors like:
9. Viroids and Prions
10. Viroids are pathogens that cause disease in \_\_\_\_\_\_\_\_\_\_\_\_\_. Ex:
11. Prions are infectious particles that disrupt protein \_\_\_\_\_\_\_\_\_\_\_\_\_. Ex:

Rsearch: Why are viruses important to humans and evolution?