



### Viruses vs. Organisms

#### The Similarities of Viruses & Organisms

1. Viruses and living organisms both \_\_\_\_\_. Viruses can contain \_\_\_\_ or \_\_\_\_ but never both.
2. Viruses can \_\_\_\_\_ (but not \_\_\_\_\_). Viruses must attach to and insert their genetic material into a \_\_\_\_\_ cell.
3. Both viruses and cells have the ability to \_\_\_\_\_ or \_\_\_\_\_ over time. Viruses \_\_\_\_\_ much faster than other organisms because their population multiplies at a much more rapid rate. This means that with each new individual there is an opportunity for new \_\_\_\_\_ to occur, which makes it more \_\_\_\_\_ to \_\_\_\_\_ or eradicate their population.

#### The Top Differences of Viruses & Organisms

1. **Viruses can not** \_\_\_\_\_. Viruses require a \_\_\_\_\_ cell in order to \_\_\_\_\_. They achieve this by \_\_\_\_\_ the host cell into believing that the virus \_\_\_\_\_ material is its \_\_\_\_\_, and then \_\_\_\_\_ it's \_\_\_\_\_ inside the host cell. In some cases, the virus immediately \_\_\_\_\_ the cell material inside the cell which is what happens during a \_\_\_\_\_ infection like the \_\_\_\_\_. Other viruses like \_\_\_\_\_ infections have a more \_\_\_\_\_ approach. \_\_\_\_\_ Are types of \_\_\_\_\_ infections. They trick the cell into believing it's one of \_\_\_\_\_ and then the cell actually makes \_\_\_\_\_ information during cellular \_\_\_\_\_ and \_\_\_\_\_ while the virus remains \_\_\_\_\_ as time goes by. When the individual becomes \_\_\_\_\_, the virus \_\_\_\_\_ up, uses the cells \_\_\_\_\_ to make \_\_\_\_\_ of itself and \_\_\_\_\_ out of the host cell. It is now a \_\_\_\_\_ infection and goes to \_\_\_\_\_ other cells.

Learning Target: I can explain the similarities and differences in characteristics of viruses and organisms.

2. Viruses can not \_\_\_\_\_. Unlike \_\_\_\_\_ cells, viruses don't go through \_\_\_\_\_ or cellular \_\_\_\_\_ to \_\_\_\_\_ and use energy.

3. Viruses can not \_\_\_\_\_. They keep their same \_\_\_\_\_ and don't change their \_\_\_\_\_ over time. Unlike us when we go from a \_\_\_\_\_ to being a full-grown \_\_\_\_\_, viruses actually have the same \_\_\_\_\_ throughout their entire life.

4. Viruses can not \_\_\_\_\_. Other organisms bodies work to maintain \_\_\_\_\_ homeostasis to respond to the \_\_\_\_\_. Just like an animal \_\_\_\_\_ if they sense \_\_\_\_\_ or a person \_\_\_\_\_ to stay warm on a cold day. Viruses can not make these \_\_\_\_\_ and are basically along for the ride.

5. The structure of viruses are very \_\_\_\_\_. Take a look at the structural components of a virus versus a cell. If you notice, the structural components are very \_\_\_\_\_ and the \_\_\_\_\_ of the cells are different as well.

6. Viruses are not \_\_\_\_\_!!!

7. Viruses are not \_\_\_\_\_!!!

#### Viruses Can Not:

- Reproduce \_\_\_\_\_
- Obtain \_\_\_\_\_
- Grow \_\_\_\_\_

#### Cell Theory:

1<sup>st</sup> – All living things are \_\_\_\_\_

2<sup>nd</sup> – Cells are the \_\_\_\_\_

3<sup>rd</sup> – All cells come from \_\_\_\_\_

Viruses have none of these in common because they are not made of \_\_\_\_\_.

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