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

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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.

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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:

1st – All living things are _____

2nd – Cells are the _____

3rd – All cells come from _____

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

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