**Questions to answer:**

1. Why are viruses classified as "obligate intracellular parasites"?
2. What are the minimum parts required for a functional virus?
3. Diagram the lytic and lysogenic cycles of bacteriophages and give examples of viruses who follow each.
4. What is the evolutionary advantage of an RNA genome in eukaryotic cell virus?
5. Why is permanent immunity to the flu impossible to acquire?
6. What cell type does HIV infect?  How does this lead to AIDS?

**Things you should make sure you understand:**

**(feel free to ask questions about them in class)**

* Why viruses are not considered to be alive in the classical sense of the term.
* The similarities and difference between prokaryotic and eukaryotic viruses.
* Multiple examples of human diseases caused by viruses.
* The relationship between certain viral infections and increased risk of some forms of cancer.
* The similarities and differences between viruses, viroids, and prions.