**Questions to answer:**

1. How did the work of TH Morgan and company contribute to the eventual discovery that DNA was the genetic material in the cell?
2. Explain the transformation experiment conducted by Frederick Griffith.  What did the results of the experiment suggest?
3. Explain how the work of Avery, McCarty, and McLeod expanded on the work done by Griffith.  What did the results of their experiment suggest?
4. Explain the experiment conducted by Hershey and Chase.  How did the results of their experiment demonstrate that DNA was the genetic material of bacteriophages?
5. What is important about the work done on DNA by Erwin Chargaff?\
6. Explain how the work done by Rosalind Franklin and Maurice Wilkins helped inform Watson and Crick’s model of the structure of DNA.
7. Briefly diagram the double helix structure of DNA.  Include:
8. At least one A,T,C,G per strand.
9. Labeled phosphates, deoxyribose, phosphodiester bonds, and the correct number of hydrogen bonds per base pair.
10. Make sure to show the anti-parallel orientation of both strands.

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

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

* The specific details of the experiments discussed in this presentation.
* How to identify all major features of the double helix.