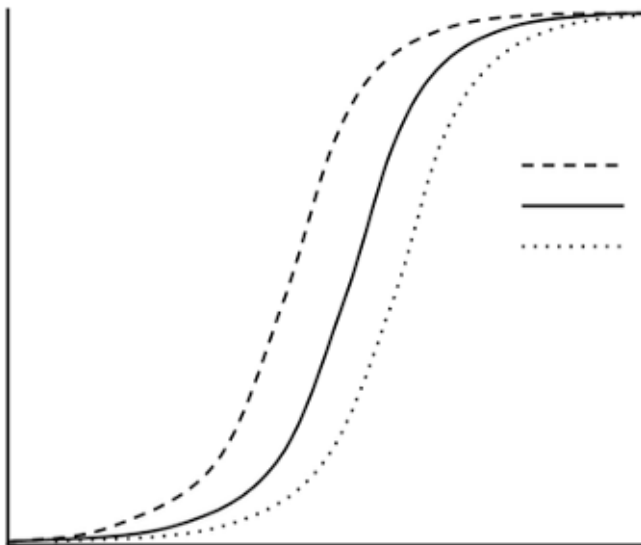


DNA Practice

1. Draw the structures for the following:
 - a. Cytidine
 - b. Guanosine
 - c. 2'deoxy ribose
 - d. Adenosine 5' monophosphate base pairing with Thymidine 5" monophosphate
2. What are the differences between DNA and RNA?
3. Label the following graph for the effect of increasing ionic strength on the stability of double stranded DNA. Label the lines for 20mM, 40 mM and 60 mM sodium chloride solutions. Label each axis.



4. Be able to explain the following:
 - a. Why is DNA with more GC content more stable?
 - b. Why is DNA with more base pairs more stable?
 - c. What two factors increase the stability of the double stranded DNA?
 - d. Explain the effect of increasing sodium chloride concentration on the stability of the double stranded DNA.