**VIDEO GUIDE ON BOZEMAN BIOLOGY DNA REPLICATION**

1. Describe the differences between semi-conservative, conservative, and dispersive models of DNA Replication (include a drawing of each with your description).
2. How did the Meselson-Stahl experiment show that DNA replication was semi-conservative?
3. What does “anti-parallel” mean in the context of DNA structure?
4. Describe the functions of the following:
   1. Helicase
   2. Single stranded binding proteins
   3. DNA polymerase
   4. Primase
   5. DNA ligase
5. Why does the “lagging strand” have to replicate DNA in a different way than the leading strand?
6. What is an “Okazaki fragment”?