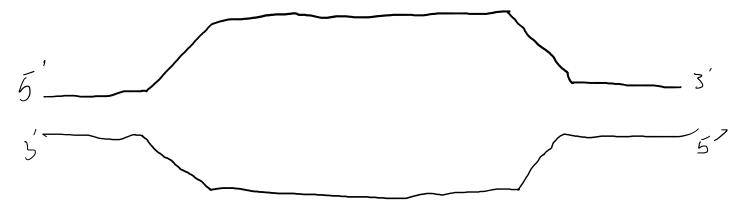
## SI #9 LIFE 1010-01

1)	Draw a nucleotide and label all the components		
21	What are the primary functions of nucleotid	oc?	
۷)	.) What are the primary functions of nacicotiaes:		
3)	Write the complementary strand to the DNA strand below. Be sure to label the directionality. What type of bond is holding these two strands together?		
	5'-AGTCGGGCTA-3'		
4)	4) Complete the table below regarding replication enzymes.		
٠,	Enzyme	Function	
	Ligase		
		Extends leading and lagging strands	
		Synthesizes RNA primers	
	DNA Pol I		
	Topoisomerase		
		Unwinds DNA into sperate strands for replication	
		1	

5) Use the enzymes in the table from Q4 to fill in the diagram of DNA synthesis. Include lagging and leading strand as well as Okazaki fragments.



6) What is one difference between DNA replication in Prokaryotic Cells and DNA replication in Eukaryotic Cells?

## **Review Section**

Topics covered in Exam 2 are as follows:

- Cell Biology
- Energy and Metabolism
- Redox Reactions
- Cellular Respiration
- Photosynthesis

Based on these topics, what would you like to go over?