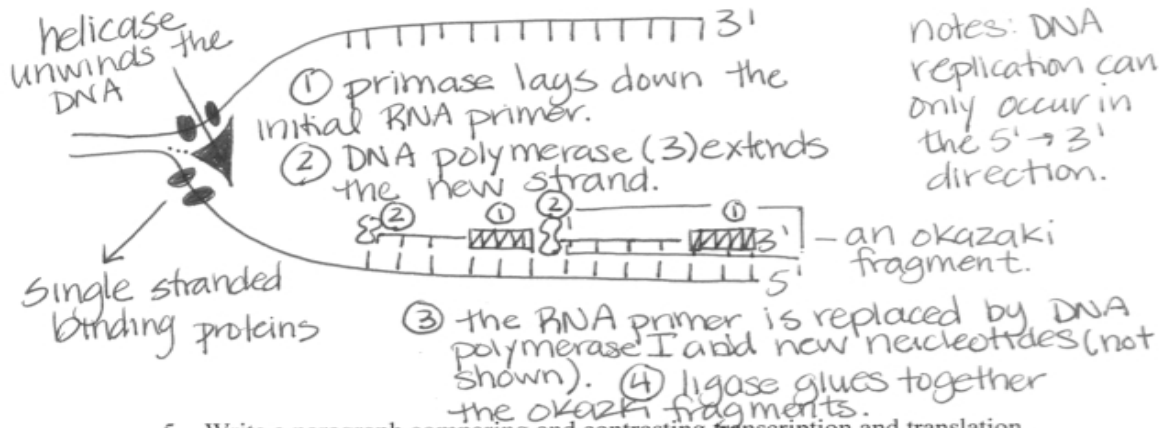


DNA Replication, Transcription and Translation Quiz

1. When does DNA replication occur? S phase of interphase
2. Where does DNA replication occur? the nucleus
3. Where are Okazaki fragments found? on the lagging strand.
4. Draw DNA replication below for the **lagging strand**. Be sure to label your diagram with an explanation of what is being depicted.



5. Write a paragraph comparing and contrasting transcription and translation. You may include figures if you like, but figures alone are not sufficient.

Transcription is the process of using a template strand of DNA to make a single strand of complementary mRNA. This process occurs in the nucleus, where as translation occurs in the cytoplasm and uses the mRNA to provide information to the ribosome to create proteins. The mRNA contains blocks of three nucleotides called codons, each codon, codes for one amino acid.

6. A codon consists of three nucleotides. Each codon codes for a specific amino acid. Long chains of amino acids make up proteins.