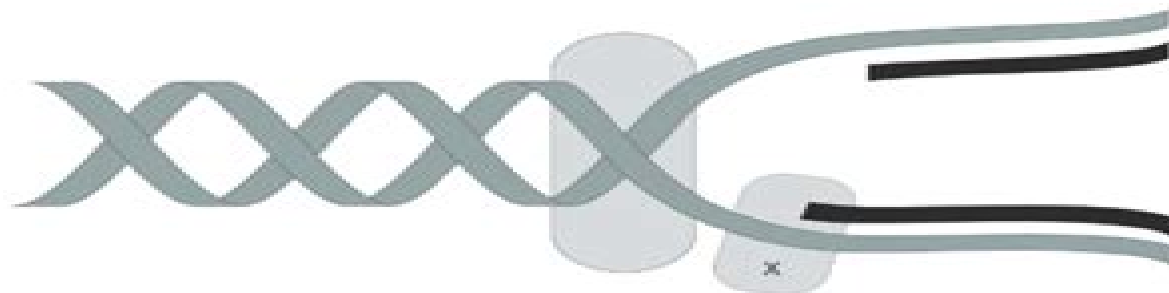


## Study guide

1. Outline the roles of the enzymes involved in DNA replication
2. Describe one application of PCR.
3. Explain how DNA fragments can be separated using gel electrophoresis.
4. The following is the base sequence from a section of DNA: ATGCGTAGCTAGATA. Outline the mRNA sequence for this DNA sequence that would be produced in transcription.
5. Draw a diagram of the DNA molecule composed of four or more nucleotides and demonstrate its structure and directionality.
6. Distinguish between DNA replication on the leading strand and the lagging strand.
7. The image below represents the process of DNA replication.



(a) State the name of the enzyme labelled X.

8. DNA is the genetic material found in all living organisms.  
(a) (i) Identify a component of RNA nucleotides which is not found in DNA nucleotides.

# Study Guide Section 2 Replication Of Dna

**Arshad Iqbal**



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