

# DNA Replication

## Big Picture

DNA replication occurs during the S phase (synthesis phase) in the cell cycle for each strand of the double helix parent DNA. As cell divide and replicate, more DNA must be made. Because each complementary strand run in different directions, the process of DNA replication works differently for each strand.

## Key Terms

**DNA Replication:** The process in which a cell's entire DNA is copied.

**DNA Helicase:** The enzyme that breaks the hydrogen bonds holding the two DNA strands together during DNA replication.

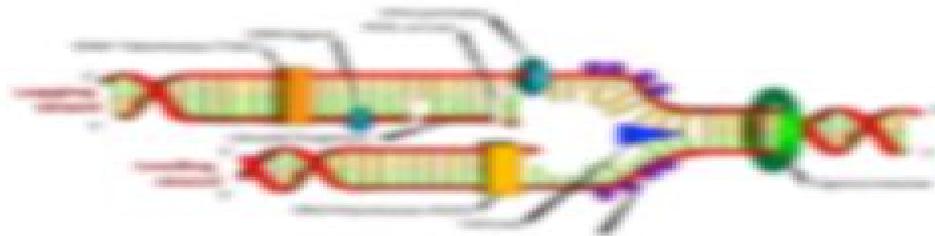
**DNA Polymerase:** The enzyme that builds a new DNA strand during DNA replication.

**Leading Strand:** The DNA strand that DNA polymerase constructs in the 5' → 3' direction.

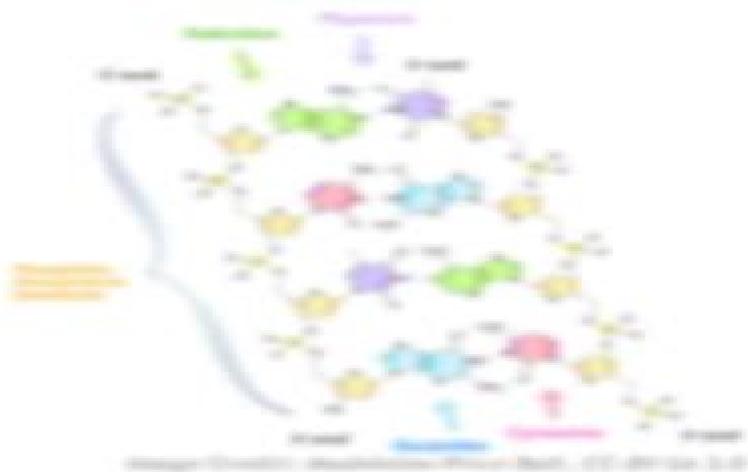
**Lagging Strand:** The DNA strand at the opposite side of the replication fork from the leading strand.

**Primase:** An enzyme that builds a short RNA primer on the lagging strand during DNA replication.

**Okazaki Fragment:** Short fragments of DNA that comprise the lagging strand.



## How It Works



In DNA replication, the parent DNA strands must be unwound by DNA helicase, which breaks the hydrogen bonds holding the two strands together. Protein factors bind to DNA unwinding the strands from each other, and an enzyme called primase creates the primer that serves as the 3' end for a new strand.

DNA polymerase creates the complementary DNA strand in the opposite direction of the parent DNA.

**Primase:** This enzyme binds only with regions of single-strand DNA.

**DNA Polymerase:** This enzyme adds nucleotides, creating a new complementary strand and the lagging strand.

**DNA Primase:** A "shortcuts" the 3' DNA strand and has a hydroxyl group, and the 3' strand grows towards the fork.

DNA polymerase creates the new DNA strand in the 5' → 3' direction, as it adds.

Discontinuously, in which strand is on the lagging strand, which grows from

3' → 5'. DNA polymerase will work continuously on the replication fork.

## What Happens Next

The daughter strands are joined by DNA ligase, which seals the lagging strand. DNA polymerase corrects any mistakes in the 5' → 3' direction. In addition, DNA polymerase creates the complementary strand, primase builds a short RNA primer. DNA polymerase then creates the small sugar-phosphate units in the 3' → 5' direction. In this sequence, the new DNA strand grows in gaps. The protein then repairs and fills out the lagging strand's surface. These specialized fragments are called Okazaki fragments.

# Dna Replication Study Guide

**Daniela Niemeyer**



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