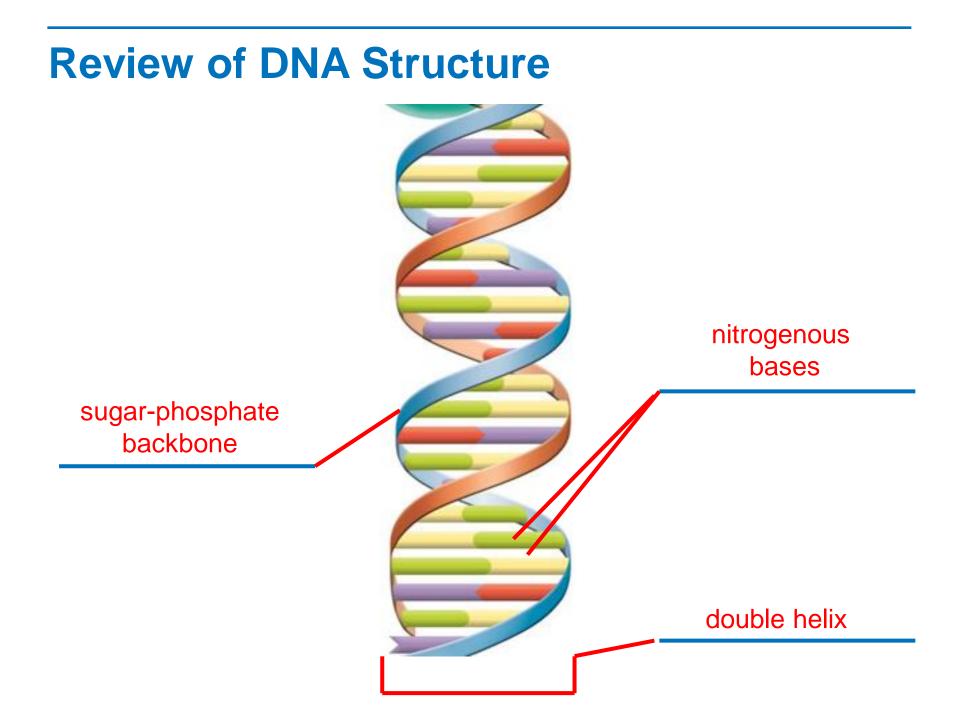
DNA Replication

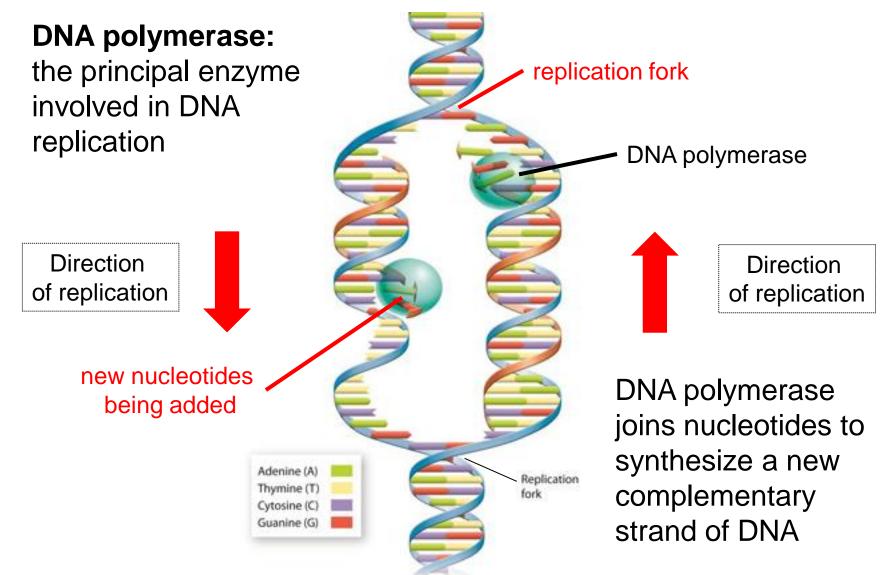




Copying the Code

- Remember before a cell divides, its DNA must be copied.
- Base pairing explains how DNA could be copied as each base on the strand only pairs up with one other base.
 - The strands are said to be complementary.
- **Replication:** duplicating DNA in a copying process during the S phase of the cell cycle.
 - The two strands of each DNA molecule separate.
 - Each strand serves as a template for a new strand.

Copying DNA



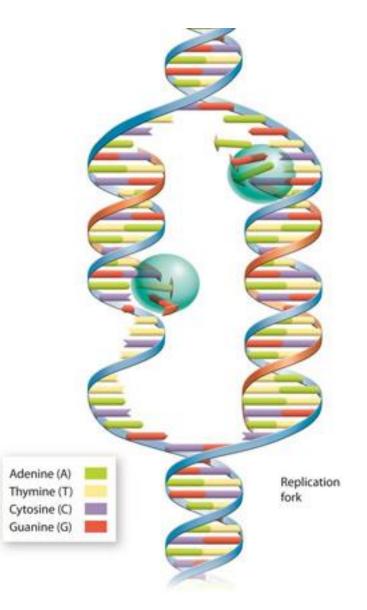
DNA Replication

The blue strand represents the original DNA strand.

The orange strand represents the **new** DNA strand.

DNA replication occurs during the S phase of the cell cycle.

Replication must be completed before a cell enters mitosis or meiosis.



Prokaryotic DNA Replication

new DNA

replication fork DNA is found in TUTIN replication fork the cytoplasm. Therease. Starts from a single point and proceeds in two unreplicated DNA directions until the entire chromosome is copied

Eukaryotic DNA Replication

