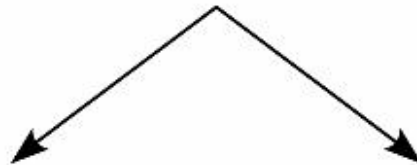


Initiation of replication

Double helix unwinds, providing single-stranded DNA templates

Helicases and **single-strand binding proteins**



Synthesis of leading strand

Synthesis of lagging strand

Priming

Primase

Priming for Okazaki fragment

Primase

Elongation

DNA polymerase

Elongation of fragment

DNA polymerase

Replacement of RNA primer by DNA

DNA polymerase

Replacement of RNA primer by DNA

DNA polymerase

Joining of fragments

Ligase