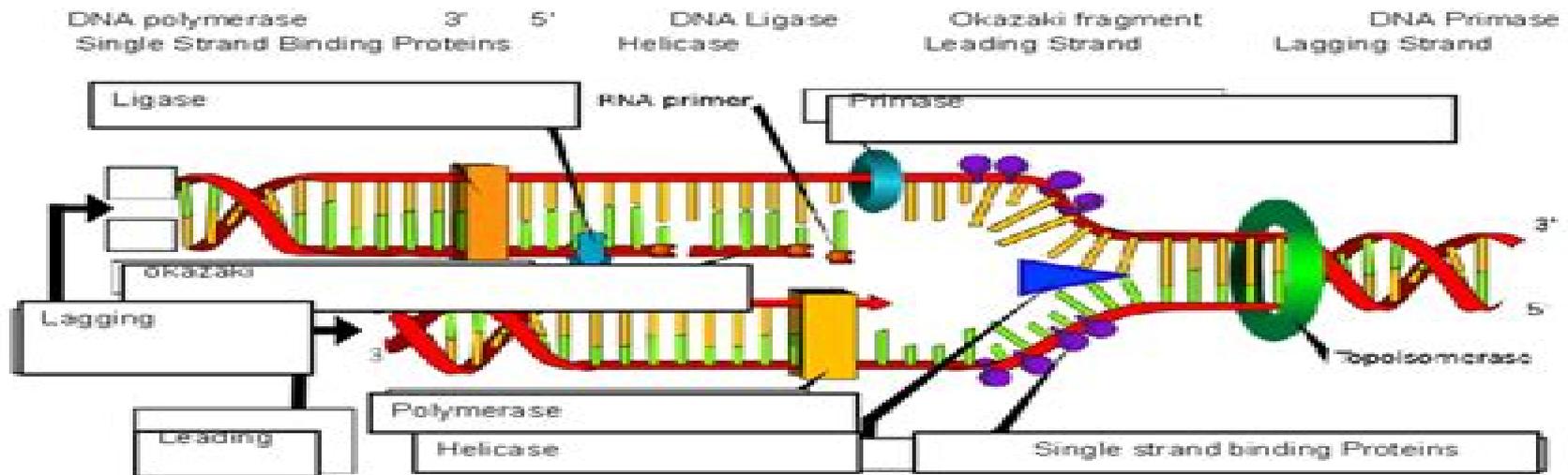


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DNA Replication - Labeling (with word bank)



Identify the structure

1. **Helicases** Enzyme that unwinds DNA
2. **Okazaki fragments** Fragments of copied DNA created on the lagging strand
3. **leading strand** The strand that is copied in a continuous way, from the 3' to 5' direction
4. **ligase** Binds Okazaki fragments
5. **Polymerase** Builds a new DNA strand by adding complementary bases
6. **Helicase** Stabilizes the DNA molecule during replication
7. **leading** Strand that is copied discontinuously because it is traveling away from helicase
8. **Primase** Initiates the synthesis DNA by creating a short RNA segment at replication fork

9. Place the events in the correct order:

- 2 DNA polymerase adds nucleotides in the 5' to 3' direction
- 4 Replication fork is formed
- 3 DNA polymerase attaches to the primer
- 1 Okazaki fragments are bound together by ligase
- 5 DNA helicase unwinds DNA

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