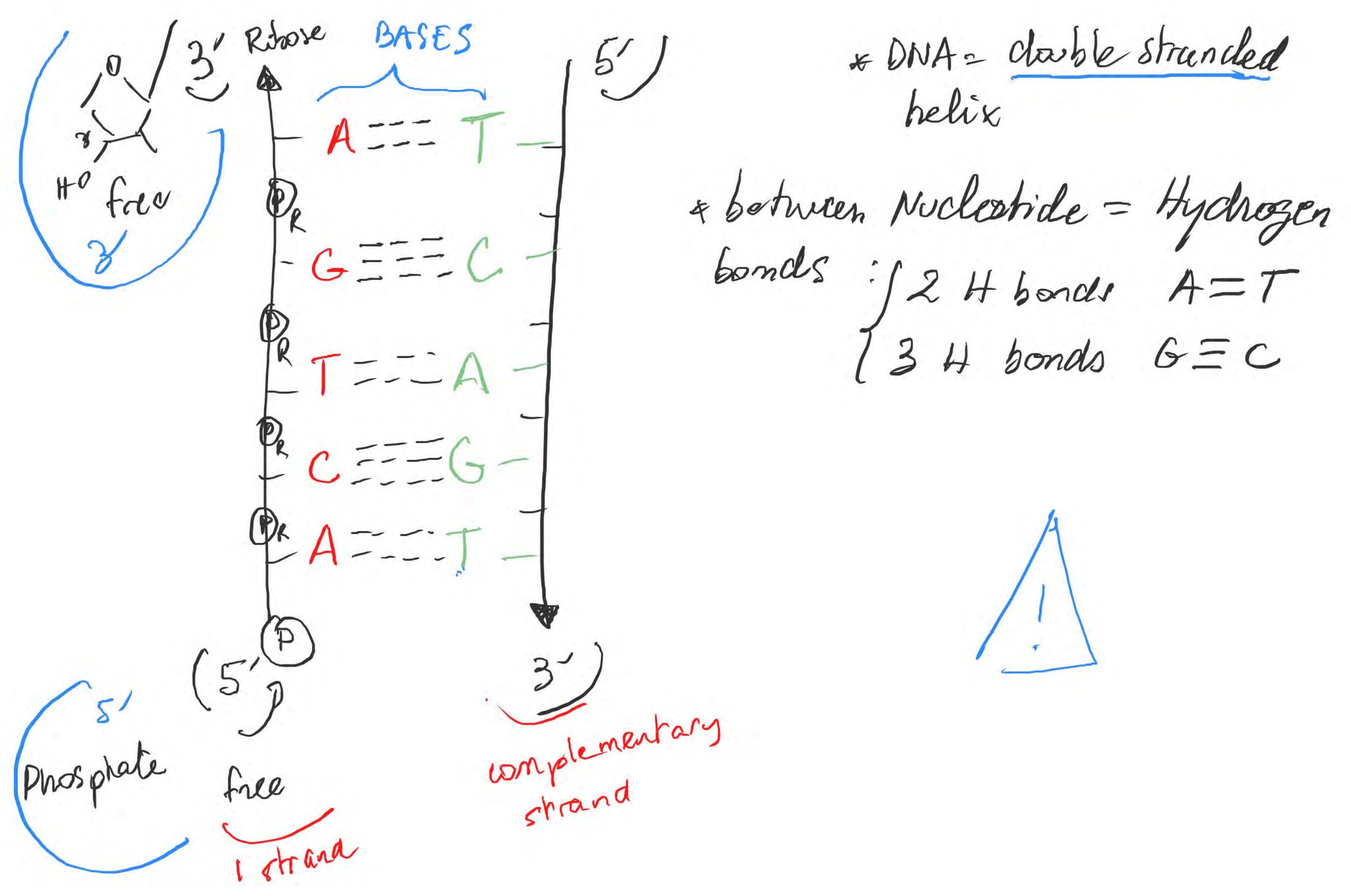
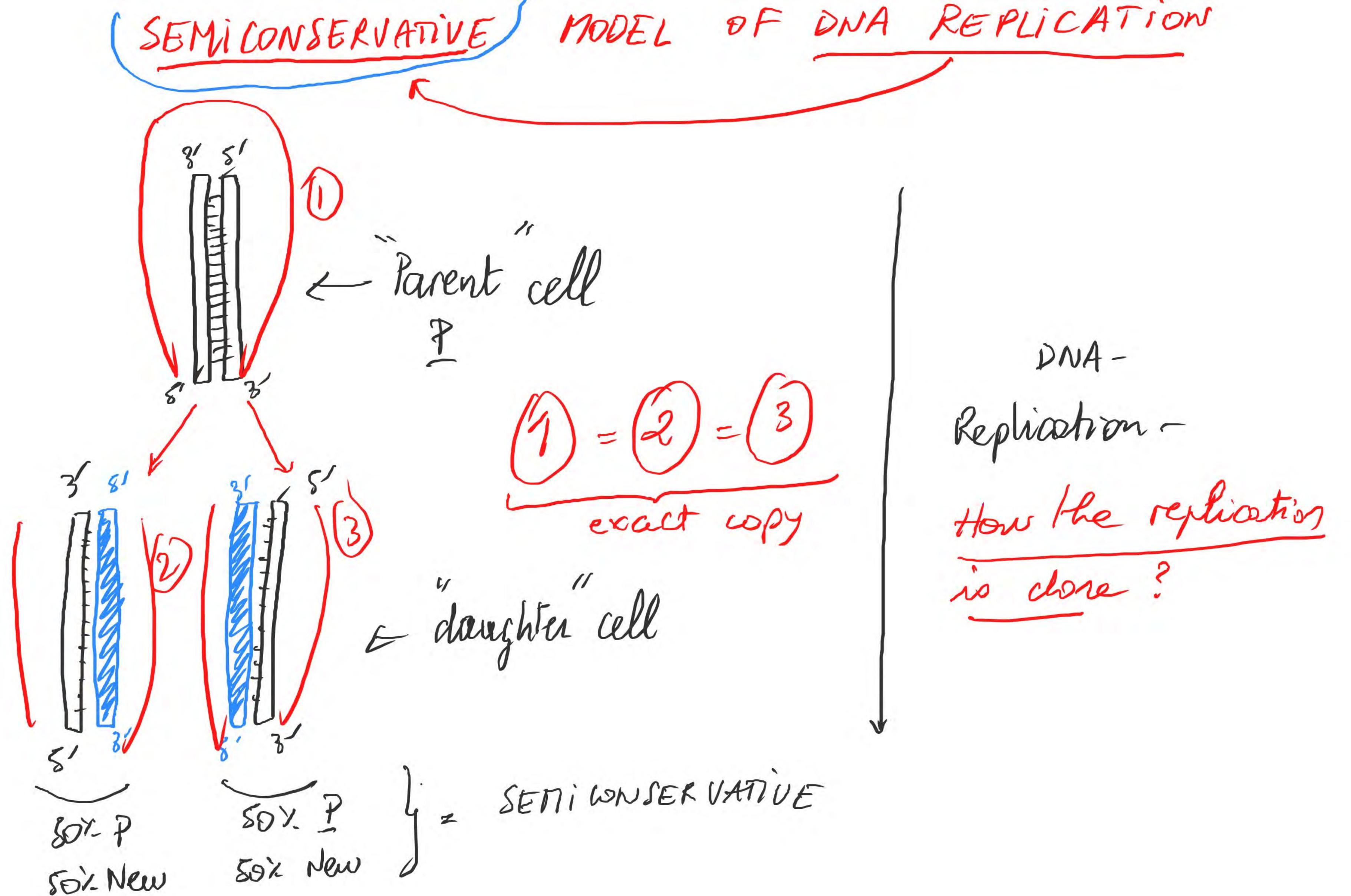
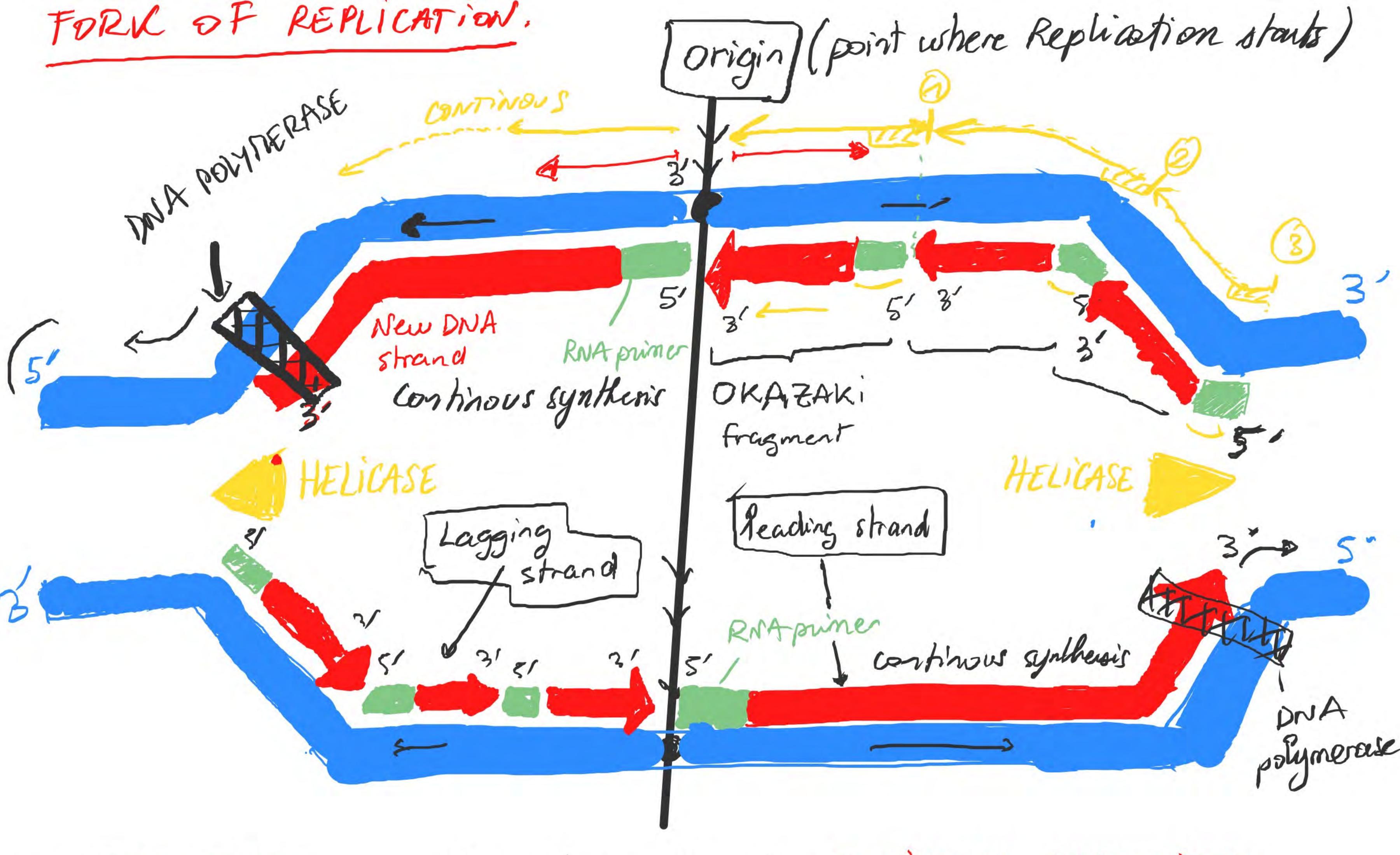
SPECIFIC H bond strand#2 is -) quicker double belix





Creation of a REPLICATION FORK by the opening DNA strands. OPEN THE DNA HELIX?

= BASED H-bord interaction (and other). Covalunt bond C-C open! easy | | tow versus covalent bond | to " | H bonds) weak intercon.) weak interchous con be broken by I temperative or by specific Enzymer[protein]



RNA PRIDER

5'-3 3! New DNA is CONTINOUSLY SYNTHETIZED.

BLOKE ALL H Separate my DNA into DNA SINGLE STRAND strand DNA helix Enzyme - prokins 1 cell or Body (~37°C) (molecule) that facilitate The reaction by buening the activation single DNA Energy. double-strandees

- BONLY DIRECTION THAT NEW DNA IJ SYNTHETIZED IS 5-23'
 IT NEEDS AN INITIAL RNA PRITZER THEN HE NEW DNA
 IS SYNTHETIZED VIA THE DNA POLYTTERASE.
- OTHE DNA IS SYNTHETIZED ON BOTH DIRECTION FROM
 THE ORIGIN OF THE OPENING OF THE DOUBLE-STRANDED
 DNA HELIX: OPENED BY [HELICASE].
- OTHE LAGGING STRAND IS MADE OF A SUCCESSION OF OKAZAKI FRAGRENTS.
- ② ALL OKAZAKÍ PRAGMENTS WILL BE JOINED TOGETHER BY

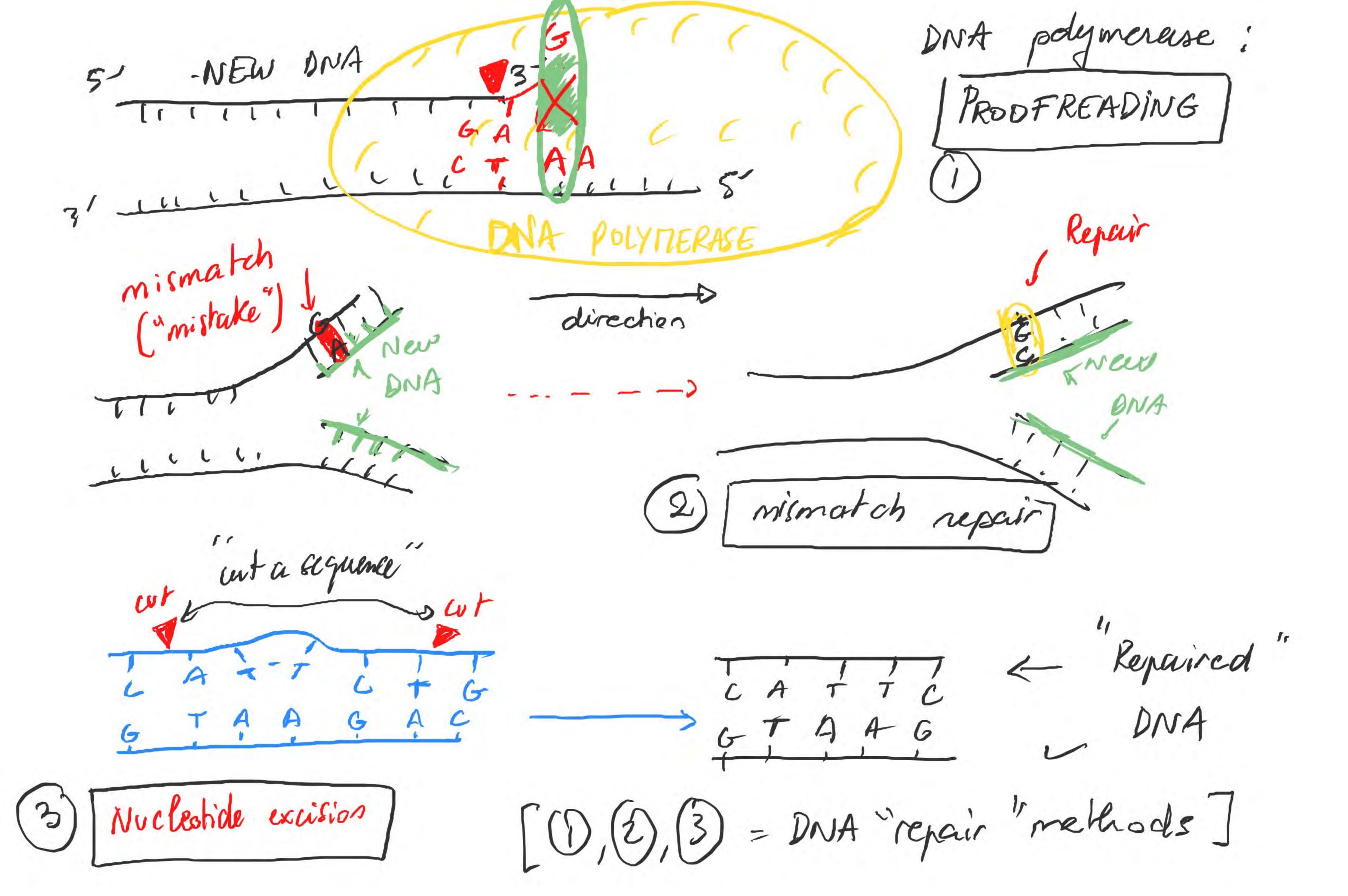
 DNA LIGASE (Enzyme). A Name of Enzyme

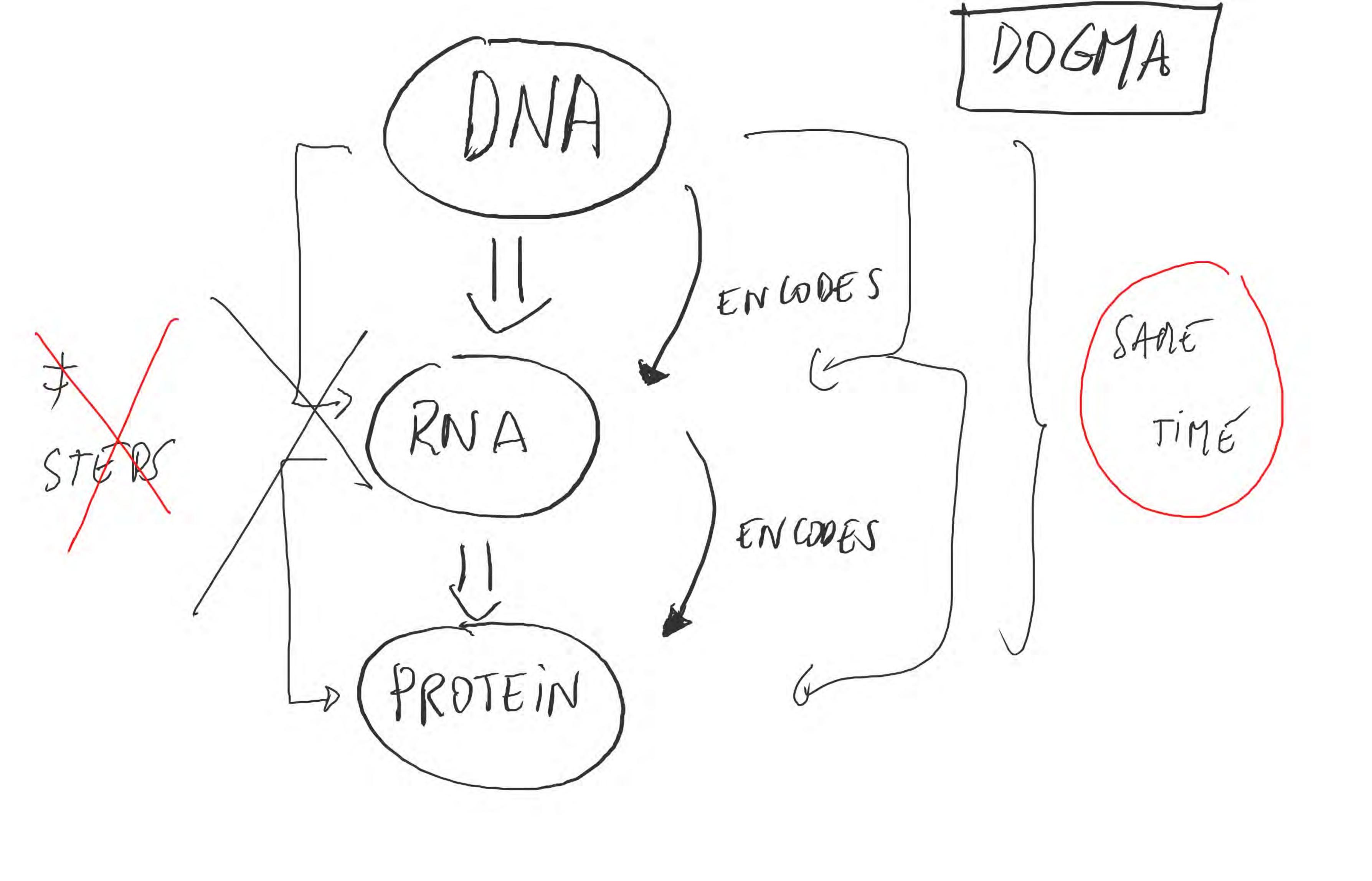
 (substrat) (what it does) Substrat ⊕ Action -

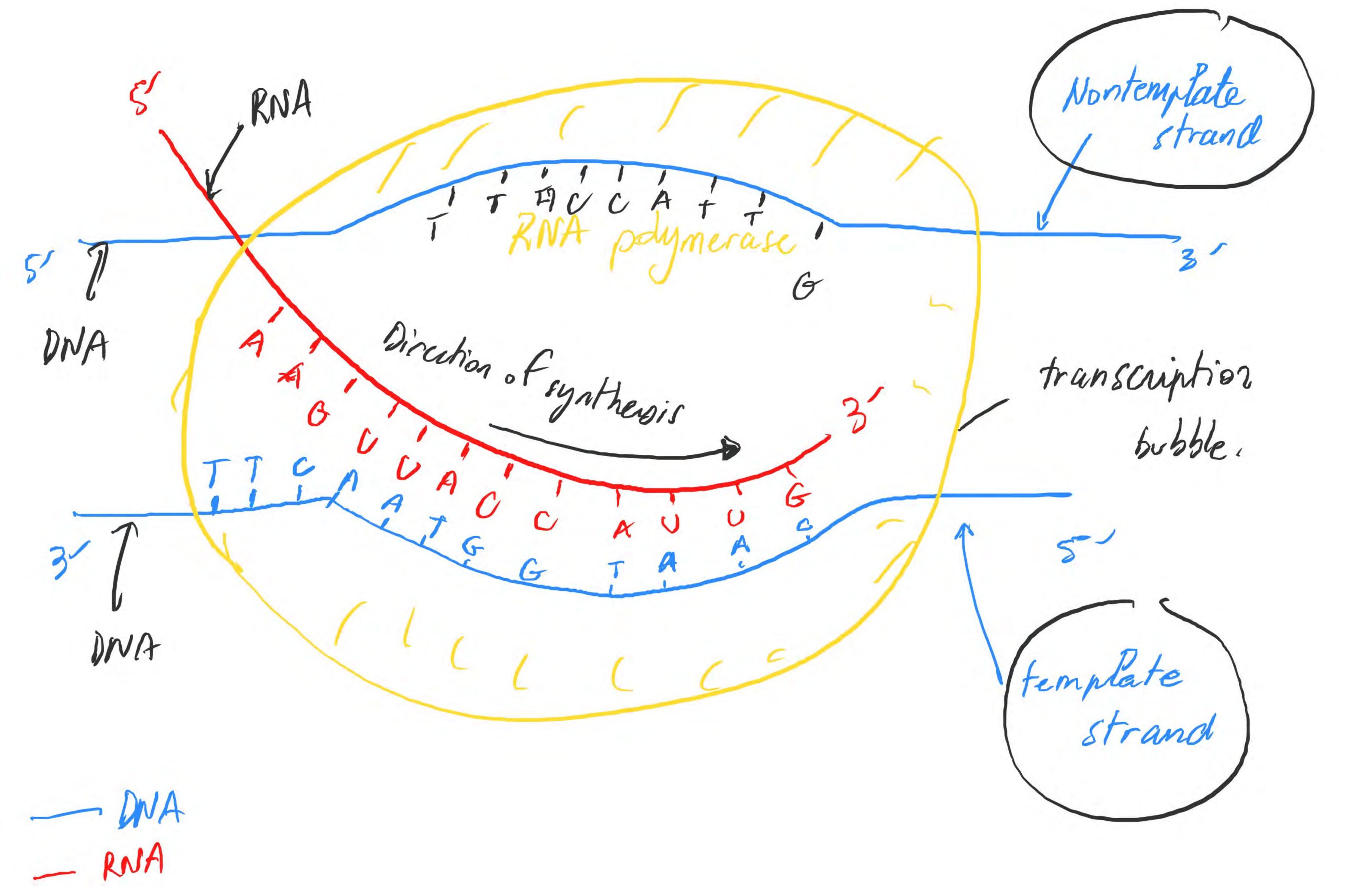
• The ends of linear chromosomes are maintained by the action of the TELOMERASE ENZYMES. Remember: DNA ATGC RNA AUGC GG TAC GAAUCCCAAUC Telomerase has an associated RNA that complements

the 3' overhang at the end of the chromosome. ---- shifting TELDITERASE template is used to synthetized the complementary stranel.

CCATGCATTGGTTAGGGTTAG RAA-L'Acamplate CAAUCCCAAUC - TETONERAJE GGTAC Telomerare shift, and the process is repeated New Synthehized DNA end reflaces the RNA lemplate







Ex: bacterial DNA: mRNA mRNA psyribosome A Multiple polymerases con transcribe a single bacterial gene while numerous ribosomes concurrently translate mRNA - Jobypephides. In this way, a specific protein can RAPIDLY reach high concentration.

Ex: Company who makes wood table (Kitchen) WOOD EFFICIENCY.