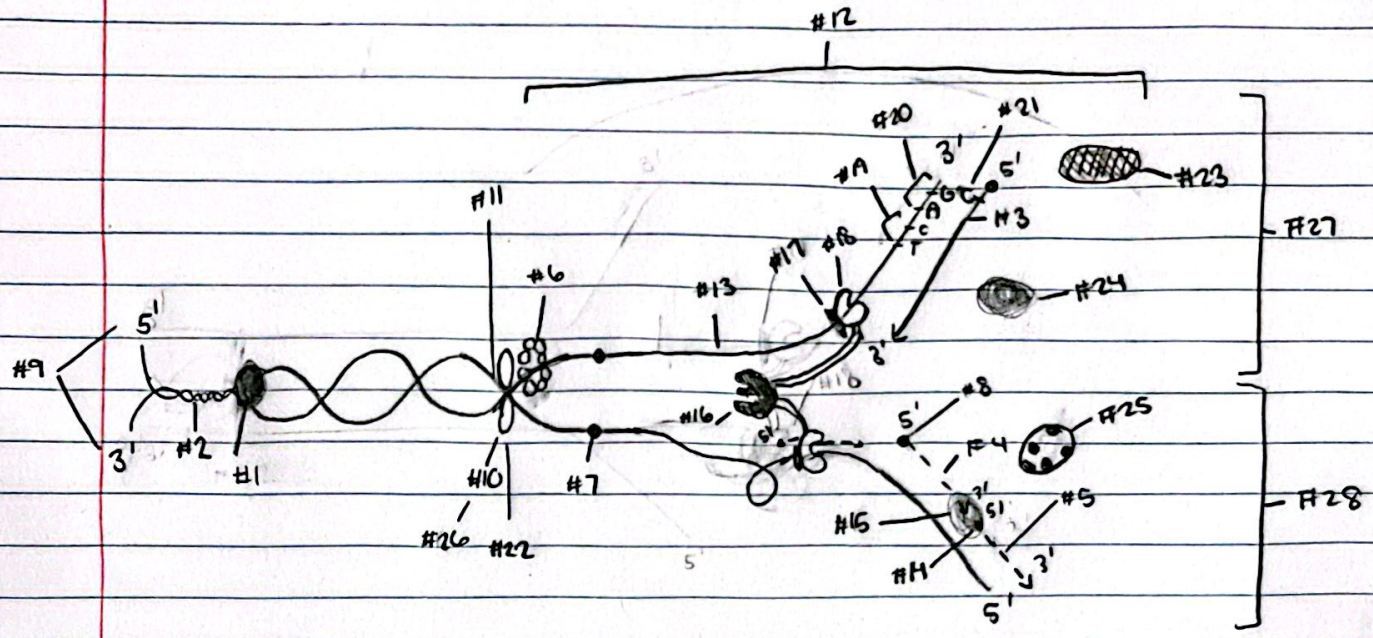
DNA Replication Assignment



1.) DNA gyrase diminishes tension from supercoiling
2.) supercoiling
3.) leading strand
4.) lagging strand
5.) okazaki fragment
6.) helicase unwinds DNA
7.) single-stranded binding proteins keep strand open
8.) RNA primer - starting point for DNA synthesis
9.) antiparallel strands
10.) initiator protein - recognize/bind to origin of replication
11.) replication fork
12.) replication bubble
13.) template strand
14.) DNA polymerase I removes RNA primers
15.) ligase joins okazaki fragments
16.) sliding clamp loader
17.) sliding DNA clamp binds #18 to template strands
18.) DNA pol III core enzymes synthesize DNA
19.) pyrimidine bases
20.) purine bases
21) complementary base pairing
22.) origin of replication (ori C)
23.) primase synthesizes RNA primers
24.) pol β carries out DNA repair
25.) pol δ displaces okazaki fragment and continues synthesizing DNA on lagging strand
26.) dnaA - type of initiator protein
27.) continuous synthesis
28.) discontinous synthesis