

NAME _____

DNA Replication Diagram

Directions:

After building bead models of DNA replication and studying the replication pictures in the textbook and reading packet, your mission is to draw an accurate diagram of the GATTACAGATTACAGATTACAGAT gene in the middle of the replication process. Essentially you need to mentally "play" your replication slide show, hit pause at approximately step 6, and draw a diagram of all of the activities happening in that scene. Please include and label all the following replication terms and concepts using arrows, brackets, circles, etc., as directed.

step 6

Nucleotide: outline ONE DNA nucleotide in blue

Helicase: label all

DNA Polymerase I: label all

RNA Primase: label all

RNA Primers: color or outline all primer nucleotides in red

Okazaki fragments: draw a green circle around all Okazaki fragments

Leading strands: label both leading strands with brackets { }

Lagging strands: label both lagging strands with brackets { }

Orientation: label the orientation of the 2 old and 2 new DNA strands like this 5'-----3' or 3'-----5'

