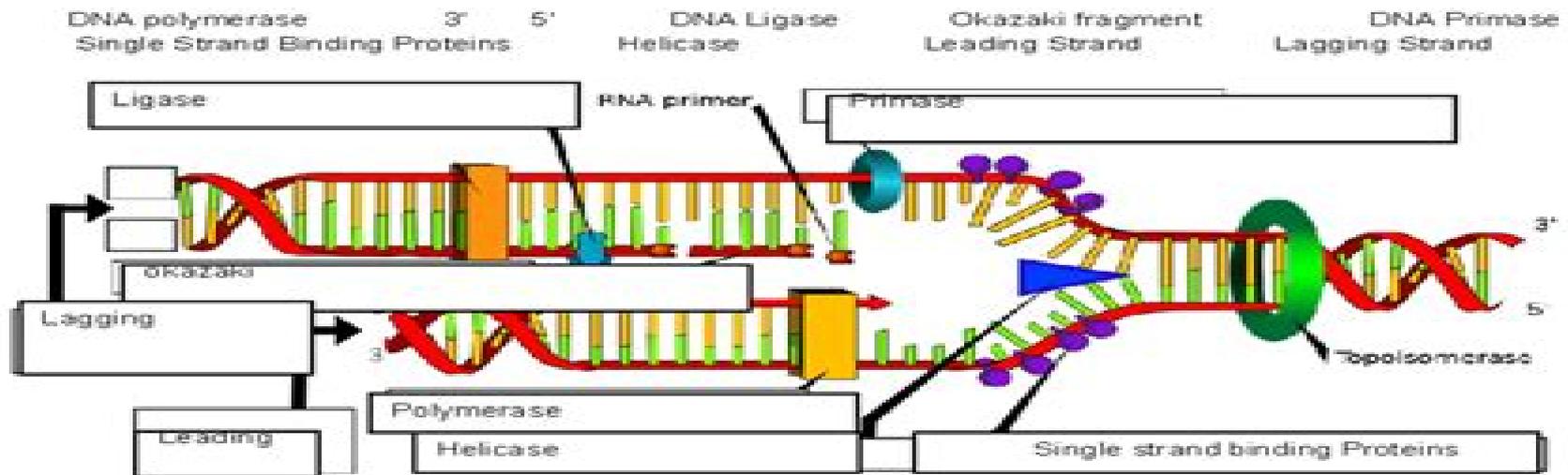


Name: _____ Date: _____

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 nucleobides 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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David Karl Jemiolo, Steven M. Theg

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Cr 9 DNA Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Chapter Resource 10 How Proteins/Made Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Essential Biochemistry Charlotte W. Pratt, Kathleen Cornely, 2023-08-25 Essential Biochemistry 5th Edition is comprised of biology pre med and allied health topics and presents a broad but not overwhelming base of biochemical coverage that focuses on the chemistry behind the biology This revised edition relates the chemical concepts that scaffold the biology of biochemistry providing practical knowledge as well as many problem solving opportunities to hone skills Key Concepts and Concept Review features help students to identify and review important takeaways in each section *Bacterial Genetics and Genomics* Lori A.S. Snyder, 2020-03-25 Our understanding of bacterial genetics has progressed as the genomics field has advanced Genetics and genomics complement and influence each other they are inseparable Under the novel insights from genetics and genomics once believed borders in biology start to fade biological knowledge of the bacterial world is being viewed under a new light and concepts are being redefined Species are difficult to delimit and relationships within and between groups of bacteria the whole concept of a tree of life is hotly debated when dealing with bacteria The DNA within bacterial cells contains a variety of features and signals that influence the diversity of the microbial world This text assumes readers have some knowledge of genetics and microbiology but acknowledges that it can be varied Therefore the book includes all of the information that readers need to know in order to understand the more advanced material in the book *Biochemistry* David Karl Jemio, Steven M. Theg, 1999 To accomplish your course goals use this study guide to enhance your understanding of the text content and to be better prepared for quizzes and tests This convenient manual helps you assimilate and master the information encountered in the text through the use of practice exercises and applications comprehensive review tools and additional helpful resources *Student Study Guide to accompany Alcamo's Fundamentals of Microbiology* Jeffrey C. Pommerville, 2010-08-10 The Student Study Guide to accompany Alcamo's Fundamentals of Microbiology Ninth Edition contains important information to help you study take effective class notes prepare properly for exams and even to manage your time effectively The Study Guide also contains over 3 000 practice exercises and study questions of various types to help you learn and retain the information in the text **Alcamo's Fundamentals of Microbiology: Body Systems** Jeffrey C. Pommerville, 2012-01-15 Ideal for allied health and pre nursing students Alcamo's Fundamentals of Microbiology Body Systems Second Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known Thoroughly revised and updated the Second Edition presents diseases complete with new content on recent discoveries in a manner that is directly applicable to students and organized by body system A captivating art program includes more than 150 newly added and revised figures and tables while new feature boxes Textbook Cases serve to better illuminate key concepts Pommerville's acclaimed learning design format enlightens and

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