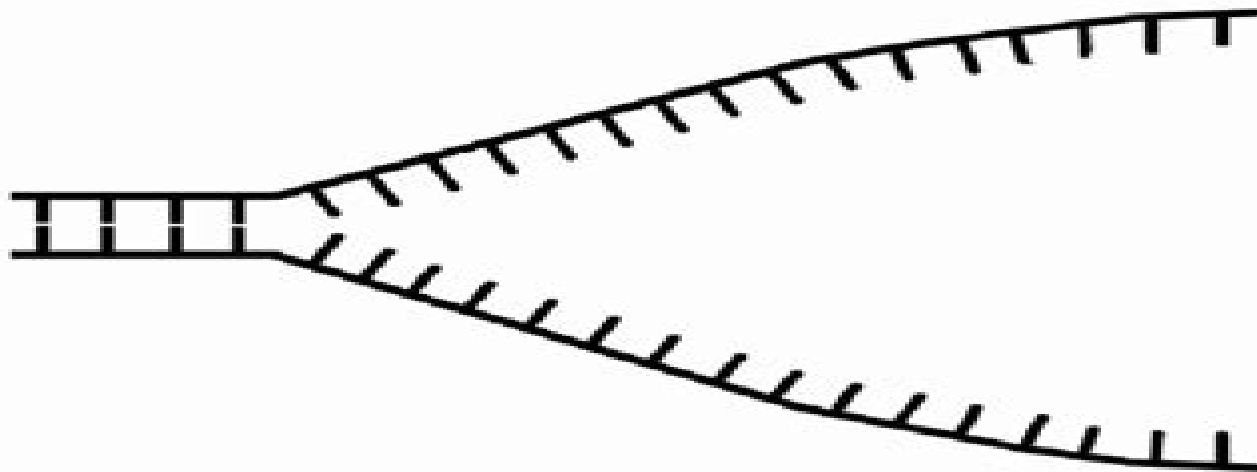


DNA Replication Drawing

Name: _____

Using pencil, you will draw a representation of DNA replication along the leading and lagging strands. Follow the directions below, drawing each element in its proper location along the replicating DNA strand. Once you are sure everything is in the correct place, complete your drawing by adding color to distinguish objects as separate.

1. On the diagram below, label the 5' and 3' ends of both parental DNA strands (you can make up which is which)
2. Label the replication fork
3. Draw and label helicase
4. Label the overall direction of DNA replication
5. Draw and label single stranded binding proteins
6. Draw and label the leading strand
7. Draw and label a single DNA polymerase III on the leading strand
8. Draw and label an RNA primer on the leading strand
9. Draw and label a DNA polymerase I on the leading strand
10. On the lagging strand, draw and label at least three Okazaki fragments
11. On the lagging strand, draw and label at least two DNA polymerase III enzymes
12. On the lagging strand, draw and label at least two RNA primers
13. On the lagging strand, draw and label at least one primase enzyme
14. On the lagging strand, draw and label at least one DNA polymerase I enzyme
15. On the lagging strand, draw and label at least one DNA ligase enzyme



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Holt Biology Holt Rinehart & Winston, 2004 Holt Biology, 2004 **Holt Biology** Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008 **Cr 9 DNA** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Holt Biology Chapter 20 Resource File: Viruses and Bacteria* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Holt Biology: Principles and Explorations* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1997-03 Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Holt Biology: Meiosis and sexual reproduction*, 2003 *Developmental Biology of Physarum* Helmut W. Sauer, 1982-10-14 **Modern Biology** Towle, Albert Towle, 1991 *Chapter Resource 10 How Proteins/Made Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Holt Biology Rob DeSalle, 2008 *Modern Biology* Albert Towle, 1989 *The Organic Chemistry of Drug Design and Drug Action* Richard B. Silverman, Mark W. Holladay, 2014-03-29 The Organic Chemistry of Drug Design and Drug Action Third Edition represents a unique approach to medicinal chemistry based on physical organic chemical principles and reaction mechanisms that rationalize drug action which allows reader to extrapolate those core principles and mechanisms to many related classes of drug molecules This new edition includes updates to all chapters including new examples and references It reflects significant changes in the process of drug design over the last decade and preserves the successful approach of the previous editions while including significant changes in format and coverage This text is designed for undergraduate and graduate students in chemistry studying medicinal chemistry or pharmaceutical chemistry research chemists and biochemists working in pharmaceutical and biotechnology industries Updates to all chapters including new examples and references Chapter 1 Introduction Completely rewritten and expanded as an overview of topics discussed in detail throughout the book Chapter 2 Lead Discovery and Lead Modification Sections on sources of compounds for screening including library collections virtual screening and computational methods as well as hit to lead and scaffold hopping expanded sections on sources of lead compounds fragment based lead discovery and molecular graphics and deemphasized solid phase synthesis and combinatorial chemistry Chapter 3 Receptors Drug receptor interactions cation p and halogen bonding atropisomers case history of the insomnia drug suvorexant Chapter 4 Enzymes Expanded sections on enzyme catalysis in drug discovery and enzyme synthesis Chapter 5 Enzyme Inhibition and Inactivation New case histories for competitive inhibition the epidermal growth factor receptor tyrosine kinase inhibitor erlotinib and Abelson kinase inhibitor imatinib for transition state analogue inhibition the purine nucleoside phosphorylase inhibitors forodesine and DADMe ImmH as well as the mechanism of the multisubstrate analog inhibitor isoniazid for slow tight binding inhibition the dipeptidyl peptidase 4 inhibitor saxagliptin Chapter 7 Drug Resistance and Drug Synergism This new chapter includes topics taken from two chapters in the previous edition with many new examples Chapter 8 Drug Metabolism Discussions of toxicophores and reactive metabolites Chapter 9 Prodrugs and Drug Delivery Systems Discussion of antibody drug conjugates

Teacher's Guide to the Modern Biology Program James Howard Otto, Albert Towle, Elizabeth H. Crider, 1965

Modern Biology James Howard Otto, Albert Towle, 1973 *Molecular Biology of the Gene* James D. Watson, 1976 The mendelian view of the world Cells obey the laws of chemistry A chemist's look at the bacterial cell The importance of weak chemical interactions coupled reactions and group transfers The concept of template surfaces The arrangement of genes on chromosomes Gene structure and function The replication of DNA The transcription of RNA UPON DNA templates Involvement of RNA in protein synthesis The genetic code Regulation of protein synthesis and function The replication of viruses The essence of being eucaryotic Embryology at the molecular level The control of cell proliferation The problem of antibody synthesis The viral origins of cancer Cell Biology of Physarum and Didymium V1 Henery Aldrich, 2012-12-02 Cell Biology of Physarum and Didymium Volume I Organisms Nucleus and Cell Cycle presents important experimental research on Physarum and Didymium for developmental and cellular studies This book is organized into four parts encompassing 12 chapters that summarize the taxonomy biological activities genetics and cell cycle of these organisms The opening part covers two chapters on morphology taxonomy phylogeny biosystematics and evolutionary implications of Physarum and Didymium species This is followed by discussions on the biological aspects of these species These include periodic events of the mitotic cycle in Physarum polycephalum The general characteristics of chemoreception at the membrane level using plasmodium as a model organism as well as the structure and motility of plasmodium are also included The third part of the book focuses on genetic analysis of plasmodium development and the discovery of techniques for the genetic manipulation of P polycephalum Progress in the genetic analysis of other processes is summarized The concluding part examines the morphological evolution of the nucleus during the mitotic cycle together with the results from ultracytochemical and radioautographic studies It also includes a discussion on DNA organization and replication in P polycephalum Finally the synthesis and degradation of RNA in Physarum and the relationship of these biochemical processes to mitotic cycle and differentiation are tackled in the concluding chapter The book will serve as a frequent single reference source to brief cell biologists on the primary research on Physarum and Didymium It will be a good source for graduate students in cell biology and perhaps in other graduate courses Principles of Modern Biology Douglas Marsland, 1957 Boyd's Introduction to the Study of Disease William Boyd, Huntington Sheldon, 1988

Holt Biology The Replication Of Dna Answers Book Review: Unveiling the Power of Words

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