

# DNA Replication Worksheet

Name: \_\_\_\_\_

Watch the animations and answer these questions as you go along.  
[http://highered.mcgraw-hill.com/sites/0072477106/student\\_view0/chapter14/animations.html](http://highered.mcgraw-hill.com/sites/0072477106/student_view0/chapter14/animations.html)

## How Nucleotides are added in DNA replication? (Animation)

1. List the proteins/enzymes involved in the process of replication.
2. How does replication start? Who prevents the unwound DNA for twisting back?
3. Which enzyme is the key player in Replication? What is this enzyme's limitation? How is this limitation overcome?
4. Why the two strands of the helix have to be elongated by two slightly different mechanisms?
5. Explain elongation stage of replication – you answer should include a discussion of leading strand, lagging strand, Okazaki pieces and RNA primer.

## DNA replication fork (Animation)

6. Draw a picture of the replication fork and label all the components.
7. How are Okazaki fragments on the lagging strand joined into one continuous strand?
8. How do eukaryotes speed the process of replication – since they have multiple long chromosomes?

Questions 9 – 25 DO NOT necessarily come from the website you used above.

9. Create a matching (complementary) DNA sequence for the following strand:



## DNA Replication

10. Replication means:

11. DNA must "unzip" to replicate. Describe how DNA "unzips".

\_\_\_\_\_

# Section 13 1 Review Dna Technology Answers

**M Mark**



### Section 13 1 Review Dna Technology Answers:

*Abstracts in Biocommerce*, 1992      **SEC Docket** United States. Securities and Exchange Commission, 2013      **Biology**  
Eric Strauss, Marilyn Lisowski, 2000      **DNA Technology in Forensic Science** Committee on DNA Technology in Forensic  
Science, Commission on Life Sciences, Division on Earth and Life Studies, National Research Council, 1992-01-15 Matching  
DNA samples from crime scenes and suspects is rapidly becoming a key source of evidence for use in our justice system DNA  
Technology in Forensic Science offers recommendations for resolving crucial questions that are emerging as DNA typing  
becomes more widespread The volume addresses key issues Quality and reliability in DNA typing including the introduction of  
new technologies problems of standardization and approaches to certification DNA typing in the courtroom including issues  
of population genetics levels of understanding among judges and juries and admissibility Societal issues such as privacy of  
DNA data storage of samples and data and the rights of defendants to quality testing technology Combining this original  
volume with the new update *The Evaluation of Forensic DNA Evidence* provides the complete up to date picture of this highly  
important and visible topic This volume offers important guidance to anyone working with this emerging law enforcement  
tool policymakers specialists in criminal law forensic scientists geneticists researchers faculty and students      *The Guardian*  
*Index*, 2002      **Handbook of Molecular Biotechnology** Dongyou Liu, 2024-09-05 With a history that likely dates back to  
the dawn of human civilization more than 10 000 years ago and a record that includes the domestication and selective  
breeding of plants and animals the harnessing of fermentation process for bread cheese and brewage production and the  
development of vaccines against infectious diseases biotechnology has acquired a molecular focus during the 20th century  
particularly following the resolution of DNA double helix in 1953 and the publication of DNA cloning protocol in 1973 and  
transformed our concepts and practices in disease diagnosis treatment and prevention pharmaceutical and industrial  
manufacturing animal and plant industry and food processing While molecular biotechnology offers unlimited opportunities  
for improving human health and well being animal welfare agricultural innovation and environmental conservation a dearth  
of high quality books that have the clarity of laboratory manuals without distractive procedural details and the thoroughness  
of well conversed textbooks appears to dampen the enthusiasm of aspiring students In attempt to fill this glaring gap  
*Handbook of Molecular Biotechnology* includes four sections with the first three presenting in depth coverage on DNA RNA  
and protein technologies and the fourth highlighting their utility in biotechnology Recognizing the importance of logical  
reasoning and experimental verification over direct observation and simple description in biotechnological research and  
development the Introduction provides pertinent discussions on key strategies i e be first be better and be different effective  
thinking lateral parallel causal reverse and random and experimental execution which have proven invaluable in helping  
advance research projects evaluate and prepare research reports and enhance other scientific endeavors Key features  
Presents state of the art reviews on DNA RNA and protein technologies and their biotechnological applications Discusses key

strategies effective thinking and experimental execution for scientific research and development Fills the gap left by detailed ridden laboratory manuals and insight lacking standard textbooks Includes expert contributions from international scientists at the forefront of molecular biotechnology research and development Written by international scientists at the forefront of molecular biotechnology research and development chapters in this volume cover the histories principles and applications of individual techniques technologies and constitute stand alone yet interlinked lectures that strive to educate as well as to entertain Besides providing an informative textbook for tertiary students in molecular biotechnology and related fields this volume serves as an indispensable roadmap for novice scientists in their efforts to acquire innovative skills and establish solid track records in molecular biotechnology and offers a contemporary reference for scholars educators and policymakers wishing to keep in touch with recent developments in molecular biotechnology *Phlebotomy Essentials, Enhanced Edition* Ruth E. McCall, 2020-06-23 *Phlebotomy Essentials Enhanced Seventh Edition* provides accurate up to date and practical information and instruction in phlebotomy procedures and techniques along with a comprehensive background in phlebotomy theory and principles *The Christian Science Monitor Index*, 2001 *Biology* Timothy Metz, 1999 Maintains a unique balance of emphasizing concepts without sacrificing scientific accuracy Provides illustrations process art and photographs to help readers visualize complex biological processes and to show clearly how the various stages of a dynamic process in biology unfold *Holt Chemistry* Ralph Thomas Myers, 2004 *Te HS&T a* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 *Cumulated Index Medicus*, 1984 *The New York Times Index*, 2005

**Congressional Record** United States. Congress, 1995 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

**Biocommerce Abstracts**, 1998 **California. Supreme Court. Records and Briefs** California (State)., Court of Appeal Case s A048789 lead A050201 **Monthly Catalogue, United States Public Documents**, 1977 *Law Institute Journal*, 1990 **Hospital Literature Index**, 1989 *Current Law Index*, 2007

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