



Part 1: Interactive DNA Discovery

Use any of the links below to complete the Interactive DNA Discovery activity on the 23andMe website. Click *Get Started* to begin and *Next* to move through the activity. As you move through the activity, answer the following questions.

Full URL: <https://education.23andme.com/dna-discovery/#>

Tiny URL: <https://tinyurl.com/y4e8z6ie>

1. In which organelle is most DNA found? **nucleus**
2. How many chromosomes do you inherit from your father? **23** How many from your mother? **23**
3. If you are male, what combination of chromosomes do you have? **xy** if female? **xx**
4. What does DNA contain instructions for? **instructions for making proteins and RNAs**
5. What is the role of proteins? **Carrying out tasks necessary to maintain the cell (like transporting oxygen, etc.)**
6. What are the sections of DNA that contain instructions for making proteins called? **A gene ?**
7. Does all of an organism's DNA code for proteins? **no**
8. What does T pair with? **A** What does G pair with? **C**
9. If a DNA sequence is A-T-G-A-C, write the sequence of base pairs that would pair with it. **T A C T G**
10. What percent of humans' DNA sequences are identical? **99.5 %**
11. Can traits be determined by more than one gene? **yes**
12. What factors influence your traits? **Lifestyle, Environment, and genetics**

Part 2: DNA Structure and Function Video

Use any of the links below to watch the DNA Structure video by Teachers Pet. As you watch, answer the following questions. Tiny URL: <https://tinyurl.com/h55ednx>

Full URL: <https://www.youtube.com/watch?v=C1CBrtkWwruQ>

13. What does DNA stand for? **Deoxyribonucleic acid**
14. What does the information contained in DNA determine? **Inherited characteristics**
15. What does DNA code for? **Making proteins**
16. What are the monomers of DNA called? **Nucleotides**
17. What are the four nitrogen bases contained in DNA?
 - a. **Thymine**
 - b. **adenine**
 - c. **cytosine**
 - d. **guanine**
18. What phrase is used to describe the structure of DNA? **Spiral or double helix**
19. What is the backbone of DNA composed of? **Alternating sugar and phosphate molecules**
20. Which base pairs with adenine? **Thymine** Which base pairs with cytosine? **guanine**



Dna Replication Webquest Answers

Tom Lee



Dna Replication Webquest Answers:

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DNA Replication Across Taxa ,2016-05-27 DNA Replication Across Taxa the latest volume in The Enzymes series summarizes the most important discoveries associated with DNA replication Contains contributions from leading authorities Informs and updates on all the latest developments in the field of enzymes *The Mystery of DNA Replication* Karl G. Lark,1980 **DNA Replication** Sonya Vengrova,Jacob Z. Dalgaard,2016-08-23 Since the discovery of DNA structure and throughout the ensuing DNA era the field of DNA replication has expanded to cover a vast number of experimental systems In DNA Replication Methods and Protocols expert researchers present a collection of techniques and approaches used to investigate DNA replication with an emphasis on the most recent technological developments Beginning with several informative introductory review chapters this extensive volume is organized for clarity while fully encouraging innovation by

the mixing of methods to create new techniques Written in the highly successful Methods in Molecular Biology™ series format chapters contain brief introductions to the topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and notes on troubleshooting and avoiding known pitfalls Comprehensive and cutting edge DNA Replication Methods and Protocols provides an excellent tool for both established laboratories and individuals new to this exciting field of research DNA Replication Anastasia Sosenko Piscitello, Michalis Petropoulos, Sotirios K.

Sotiriou, Thanos D. Halazonetis, 2022-04-12 Abnormal DNA replication is the primary way that cancer develops in mammals therefore a deep understanding of the way replication works for healthy cells will enhance our ability to eradicate problematic replication pathways The same rapid advances in technology within the last ten to twenty years that have allowed us to understand DNA replication better have also led and will lead to new cancer therapies In recent years our understanding of the complexity of DNA replication has advanced tremendously This e book distills the bulk of the published studies in DNA replication with an intentional focus on eukaryotes specifically budding yeast and mammals An important feature of this e book is the incorporated images and figures Being able to clearly visualize protein and enzymatic processes is central to understanding them Therefore we have incorporated images of the three dimensional structures of the proteins that mediate DNA replication stepwise guides to simplify the complex nature of the replication process and cryo EM images for different proteins and protein DNA complexes to reveal their structural components We hope to have provided readers with both fundamentals and cutting edge information so that they may think about the biology of DNA replication and contribute to the body of knowledge in the field *DNA and RNA* Linley Erin Hall, 2010-08-15 Introduces DNA and RNA discussing how heredity works what can happen when the code goes wrong replication and new advances in science and technology **DNA : Replication and Recombination**, 1979 *A Practical Approach to DNA Replication* Larry

Madison, 2025-08-25 DNA replication is a fundamental process in biology essential for the inheritance of genetic information and the growth and development of organisms It occurs in all living cells and is crucial for maintaining genetic stability across generations The process of DNA replication involves the duplication of a cell's entire genome before cell division It is a highly precise and intricate process orchestrated by a complex machinery of enzymes and proteins Each strand serves as templates for the synthesis of new complementary strands by special enzymes called DNA polymerases This results in two identical DNA molecules each containing one original strand and one newly synthesized strand DNA replication is semiconservative meaning that each newly synthesized DNA molecule contains one strand from the original molecule and one newly synthesized strand This ensures the accurate transmission of genetic information from one generation to the next This book provides comprehensive insights into the field of DNA replication It traces the progress of this field and highlights some of its key concepts and applications This book attempts to assist those with a goal of delving into the field of molecular biology **Recent Advances in DNA Replication** Tom Lee, 2025-08-25 DNA replication is the biological process through

which a cell creates an exact copy of its DNA. It occurs in all living organisms to ensure the accurate transmission of genetic information. It takes place during the S phase of the cell cycle before cell division. The process begins at specific locations called origins of replication where the DNA double helix is unwound by the enzyme helicase, creating two single strands. Each strand serves as a template for the formation of a new complementary strand, facilitated by the enzyme DNA polymerase. The result is two identical DNA molecules, each containing one original and one newly synthesized strand, ensuring genetic consistency in daughter cells. DNA replication is crucial for growth, development, and tissue repair in multicellular organisms and for reproduction in single-celled organisms. This book presents the complex subject of DNA replication in the most comprehensible and easy-to-understand language. The topics covered in this extensive book deal with the core topic of replication of DNA. For all those who are interested in molecular and cellular biology, this book can prove to be an essential guide.

DNA Replication Urquart Nye Griffiths, In the quiet depths of every living cell, a process of extraordinary precision unfolds countless times each day. DNA replication stands as one of nature's most remarkable achievements, a molecular dance that ensures the faithful transmission of genetic information from one generation to the next. This fundamental process represents the very foundation upon which all life depends, operating with a level of accuracy that surpasses even our most sophisticated human technologies. The story of DNA replication begins with the discovery of the double helix structure itself. When James Watson and Francis Crick first proposed their model of DNA in 1953, they immediately recognized its profound implications for how genetic material might be copied. The complementary base pairing they observed, where adenine always pairs with thymine and guanine with cytosine, suggested an elegant mechanism by which each strand of the double helix could serve as a template for creating its partner strand. This realization marked a pivotal moment in our understanding of heredity. For centuries, scientists had puzzled over how traits passed from parents to offspring with such remarkable consistency. The discovery of DNA's structure and its replication mechanism finally provided the molecular explanation for this fundamental biological phenomenon. Each time a cell divides, it must create an exact copy of its entire genetic blueprint, a task that involves duplicating billions of base pairs with extraordinary fidelity.

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