

**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/#>

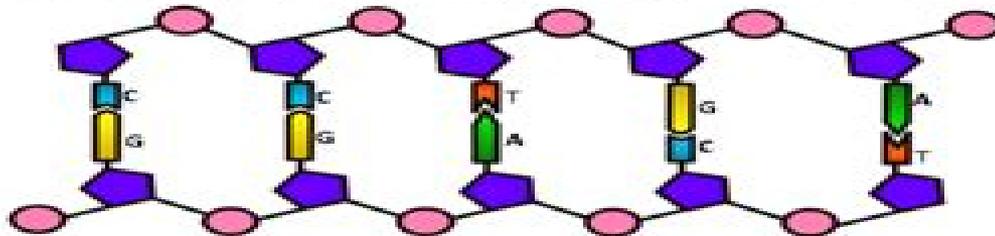
Tiny URL: <https://tinyurl.com/s4te8ze>

- In which organelle is most DNA found? Nucleus
- How many chromosomes do you inherit from your father? 23 How many from your mother? 23
- If you are male, what combination of chromosomes do you have? XY If female? XX
- What does DNA contain instructions for? Making proteins and RNA
- What is the role of proteins? Carry out tasks necessary for building and maintaining the cell
- What are the sections of DNA that contain instructions for making proteins called? Genes
- Does all of an organism's DNA code for proteins? No
- What does T pair with? A What does G pair with? C
- 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
- What percent of humans' DNA sequences are identical? 99.9%
- Can traits be determined by more than one gene? Yes
- What factors influence your traits? Genetics, lifestyle, and environment

**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/m55c4m> Full URL: <http://www.youtube.com/watch?v=CLCRtkW6wu0>

- What does DNA stand for? Deoxyribonucleic acid
- What does the information contained in DNA determine? Inherited characteristics
- What does DNA code for? Proteins
- What are the monomers of DNA called? Nucleotides
- What are the four nitrogen bases contained in DNA?
  - Adenine
  - Cytosine
  - Thymine
  - Guanine
- What phrase is used to describe the structure of DNA? Double helix
- What is the backbone of DNA composed of? Alternating sugar and phosphate molecules
- Which base pairs with adenine? Thymine Which base pairs with cytosine? Guanine
- Label the phosphate and deoxyribose sugar. Then write the first initial of the complementary base pairs.



Write the full name of each base below its picture.



**Helpful Hint!**  
Remember that Apples (A) go in a Tree (T) and Cars (C) go in a Garage (G).

# Student Webquest Dna Extraction Answer Key

**N Noddings**



**Student Webquest Dna Extraction Answer Key:**

This book delves into Student Webquest Dna Extraction Answer Key. Student Webquest Dna Extraction Answer Key is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Student Webquest Dna Extraction Answer Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Student Webquest Dna Extraction Answer Key
    - Chapter 2: Essential Elements of Student Webquest Dna Extraction Answer Key
    - Chapter 3: Student Webquest Dna Extraction Answer Key in Everyday Life
    - Chapter 4: Student Webquest Dna Extraction Answer Key in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, this book will delve into the foundational concepts of Student Webquest Dna Extraction Answer Key. The second chapter will elucidate the essential principles that must be understood to grasp Student Webquest Dna Extraction Answer Key in its entirety.
  4. In chapter 3, the author will examine the practical applications of Student Webquest Dna Extraction Answer Key in daily life. The third chapter will showcase real-world examples of how Student Webquest Dna Extraction Answer Key can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Student Webquest Dna Extraction Answer Key in specific contexts. The fourth chapter will explore how Student Webquest Dna Extraction Answer Key is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Student Webquest Dna Extraction Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Student Webquest Dna Extraction Answer Key.

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## **Table of Contents Student Webquest Dna Extraction Answer Key**

1. Understanding the eBook Student Webquest Dna Extraction Answer Key
  - The Rise of Digital Reading Student Webquest Dna Extraction Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Student Webquest Dna Extraction Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Student Webquest Dna Extraction Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Student Webquest Dna Extraction Answer Key
  - Personalized Recommendations
  - Student Webquest Dna Extraction Answer Key User Reviews and Ratings
  - Student Webquest Dna Extraction Answer Key and Bestseller Lists
5. Accessing Student Webquest Dna Extraction Answer Key Free and Paid eBooks
  - Student Webquest Dna Extraction Answer Key Public Domain eBooks
  - Student Webquest Dna Extraction Answer Key eBook Subscription Services
  - Student Webquest Dna Extraction Answer Key Budget-Friendly Options
6. Navigating Student Webquest Dna Extraction Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Student Webquest Dna Extraction Answer Key Compatibility with Devices
  - Student Webquest Dna Extraction Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Student Webquest Dna Extraction Answer Key
  - Highlighting and Note-Taking Student Webquest Dna Extraction Answer Key
  - Interactive Elements Student Webquest Dna Extraction Answer Key

8. Staying Engaged with Student Webquest Dna Extraction Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Student Webquest Dna Extraction Answer Key
9. Balancing eBooks and Physical Books Student Webquest Dna Extraction Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Student Webquest Dna Extraction Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Student Webquest Dna Extraction Answer Key
  - Setting Reading Goals Student Webquest Dna Extraction Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Student Webquest Dna Extraction Answer Key
  - Fact-Checking eBook Content of Student Webquest Dna Extraction Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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