

## DNA Webquest

Name: Aulan Carter

### Task 1: DNA Inquiry Activity



Interact with a molecule of DNA using the DNA: The Double Helix interactive on the Labexchange website. Manipulate the model and answer the following questions.

Full URL: [https://www.labxchange.org/library/items/fb-LabXchange-5c1562b9-ix\\_simulation\\_1\\_25newsag](https://www.labxchange.org/library/items/fb-LabXchange-5c1562b9-ix_simulation_1_25newsag)

Tiny URL: <https://tinyurl.com/22show5t>

1. How many "chains" do you observe in this DNA model?  
DNA has **two chains** that form a double helix structure.
2. List the five elements found in DNA.

The five elements commonly found in DNA are:

1. Carbon (C)
2. Hydrogen (H)
3. Oxygen (O)
4. Nitrogen (N)
5. Phosphorus (P)

3. Check the ball & stick and nucleotides boxes. What do you observe about the different colors of nucleotides? Do you observe any patterns?

4. Manipulate the model and experiment with the options for a few minutes. List observations you make as you explore.

### Task 2: DNA Discovery Activity



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/uf1e8z6e>

5. In which organelle is most DNA found?  
Most DNA is found in the **nucleus** of the cell.
6. How many chromosomes do you inherit from your father?  
You inherit **23 chromosomes** from your father.  
How many chromosomes do you inherit from your mother?  
You inherit **23 chromosomes** from your mother.
7. If you are male, what combination of chromosomes do you have? XY \_\_\_\_\_ If female?  
XX \_\_\_\_\_
8. What does DNA contain instructions for?

# History Of Dna Webquest Answers

**Sebastian Brünink**



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## **Table of Contents History Of Dna Webquest Answers**

1. Understanding the eBook History Of Dna Webquest Answers
  - The Rise of Digital Reading History Of Dna Webquest Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying History Of Dna Webquest Answers
  - 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 History Of Dna Webquest Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from History Of Dna Webquest Answers
  - Personalized Recommendations
  - History Of Dna Webquest Answers User Reviews and Ratings
  - History Of Dna Webquest Answers and Bestseller Lists
5. Accessing History Of Dna Webquest Answers Free and Paid eBooks
  - History Of Dna Webquest Answers Public Domain eBooks
  - History Of Dna Webquest Answers eBook Subscription Services
  - History Of Dna Webquest Answers Budget-Friendly Options

6. Navigating History Of Dna Webquest Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - History Of Dna Webquest Answers Compatibility with Devices
  - History Of Dna Webquest Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of History Of Dna Webquest Answers
  - Highlighting and Note-Taking History Of Dna Webquest Answers
  - Interactive Elements History Of Dna Webquest Answers
8. Staying Engaged with History Of Dna Webquest Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers History Of Dna Webquest Answers
9. Balancing eBooks and Physical Books History Of Dna Webquest Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection History Of Dna Webquest Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine History Of Dna Webquest Answers
  - Setting Reading Goals History Of Dna Webquest Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of History Of Dna Webquest Answers
  - Fact-Checking eBook Content of History Of Dna Webquest Answers
  - 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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