

DNA Webquest

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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

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

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