

Activity A:
Build a DNA molecule

Get the Gizmo ready:

- If necessary, click **Reset** to start the building process.



Question: What is the structure of DNA?

1. **Build:** Follow the steps given in the Gizmo to construct a molecule of DNA. (Note: For simplicity, this DNA molecule is shown in two dimensions, without the twist.)

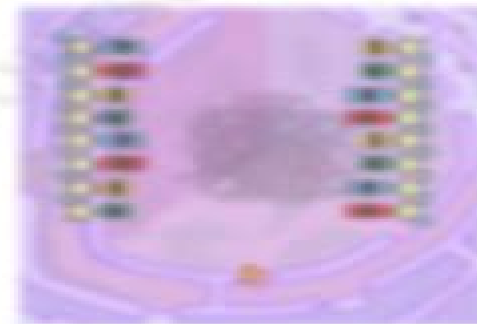
Stop when the hint reads: "The DNA molecule is complete." In the spaces at right, list the sequence of nitrogenous bases on the left-hand side of the DNA molecule and the right-hand side.

Left side

Right side

_____ G _____	_____ C _____
_____ C _____	_____ G _____
_____ A _____	_____ T _____
_____ T _____	_____ A _____
_____ G _____	_____ C _____
_____ C _____	_____ G _____
_____ A _____	_____ T _____
_____ T _____	_____ A _____

2. **Take a picture:** Click the camera (📷) to take a snapshot of your DNA molecule. Right-click the image and select **Copy Image**. Paste the image into a blank document, and label this image "Original DNA molecule."



3. **Explain:** Describe the structure of the DNA molecule you made.

- A. What makes up the sides of the DNA molecule? Phosphates and sugars.
- B. What makes up the "rungs" of the DNA molecule? Nitrogenous bases.

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Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Gizmo Building Dna Exploration Teqachers Guide**

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