

Name: _____

Date: _____

Student Exploration: Building DNA

Before beginning the gizmo, watch the video at this link: [How to Make a Human Being](#)

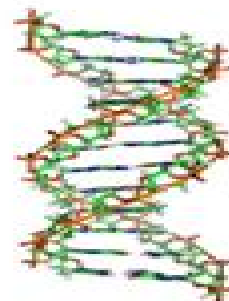
Now begin the Gizmo below. Turn it in to your substitute when you are finished.

Recall from our unit on Biochemistry that DNA is one of the class of macromolecules we call **nucleic acids**. Nucleic acids are long chains of nucleotides linked together by covalent bonds. **DNA** is an incredible molecule that forms the basis of life on Earth. DNA molecules contain instructions for building every living organism on Earth, from the tiniest bacterium to a massive blue whale. DNA also can make copies of itself. This allows living things to grow and reproduce.

1. Look at the DNA molecule shown at right. What does it look like?

This shape is called a **double helix**.

2. Based on this picture, how do you think a DNA molecule makes a copy of itself? (Hint: Look at the bottom two "rungs" of the ladder.)



Gizmo Warm-up

The *Building DNA* Gizmo allows you to construct a DNA molecule and go through the process of DNA replication.

1. Look on the right side of the Gizmo. What is the name for the components make up a DNA molecule?

A **nucleotide** consists of three parts: a phosphate group (blue circle), a sugar called deoxyribose (tan pentagon), and a **nitrogenous base** (shown in color).



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SB Merriam

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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