

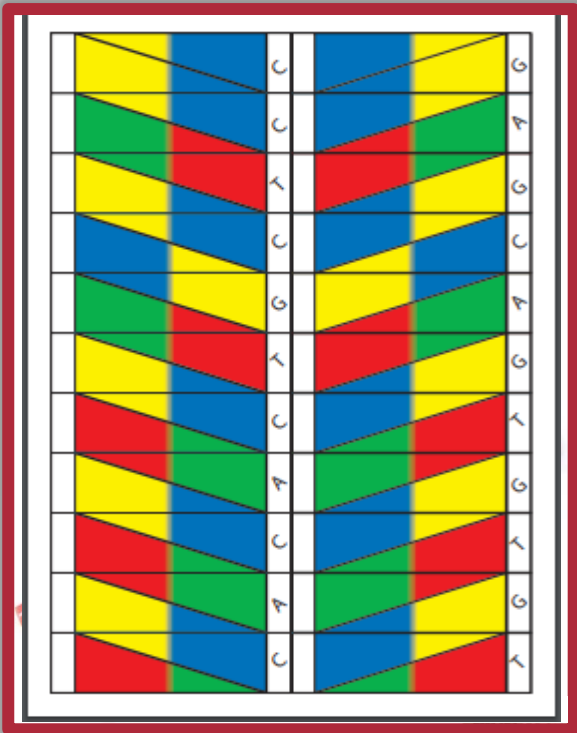
YOUR CHALLENGE

Make your own DNA strand



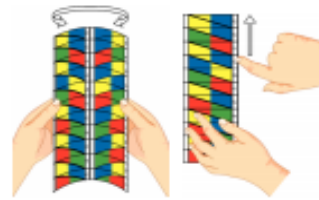
STEP 1 Print your DNA template

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STEP 2

Follow the instructions carefully



- 1 Fold in half lengthwise. Make all creases as firm as possible (use your fingernail!)



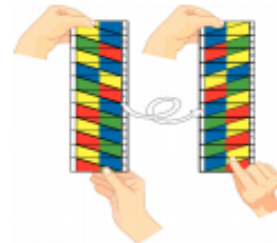
- 2 Hold the paper so that the thick lines are diagonal and the thin lines are horizontal. Fold the top segment down and then unfold.



- 3 Fold the top two segments down along the next horizontal line. Unfold.



- 4 Repeat for all segments.



- 5 Turn the paper over.



- 6 Fold along the first diagonal line. Unfold and fold along the second diagonal line. Repeat for all diagonal lines.



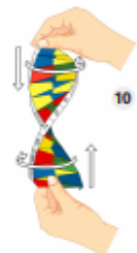
- 7 Fold the white edge without letters up.



- 8 Fold the other edge away from you. Partly unfold both edges.



- 9 You can now see how the model is starting to twist.



- 10 Twist and turn the paper while pushing the ends towards each other.

Be brave!



- 11 Now let go!



- 12 Admire your completed DNA double helix!

Only another 2,999,999,989 (or so) more to complete your whole genome!

STEP 3

Take a photo

Take a photo of your finished DNA double helix strand and send it to us.



STEP 4

What is DNA ?

DNA is an essential molecule for life. It acts like a recipe holding the instructions telling our bodies how to develop and function.

What does DNA stand for?

DNA is short for deoxyribonucleic acid.

Different Cells in the Body

Our bodies have around 210 different types of cells. Each cell does a different job to help our body to function. There are blood cells, bone cells, and cells that make our muscles.

How do cells know what to do?

Cells get their instructions on what to do from DNA. DNA acts sort of like a computer program. The cell is the computer or the hardware and the DNA is the program or code.



IT IS A "DOUBLE HELIX" !!!

IT IS MADE OUT OF 4
DIFFERENT CHEMICAL
BASES: A, T, G, C.

THE BASES ARE SHAPED
LIKE JIGSAW PUZZLE
PIECES:

A always fits T

C always fits G



Send us a picture of your project



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