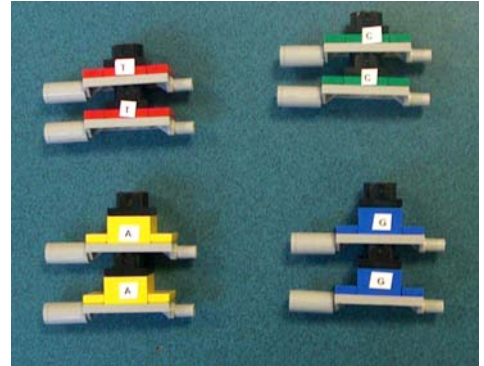


How is DNA put together?

Discover for yourself...

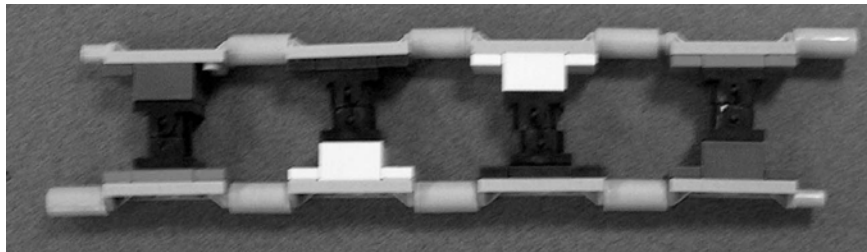
Step 1.

- Begin with 2 of each color DNA nucleotide.



Step 2.

- Use all pieces and arrange them into straight-sided ladder. DNA is shaped like a ladder.
- Be sure to keep the sides of the ladder the same distance apart. See below:



- Use the magnets to make pairs. Snap the gray side pieces together.
- You will discover some of the DNA nucleotides will pair with each other AND keep the sides of the ladder parallel.
- Make a four step ladder, using the DNA nucleotides.
**You have just discovered the famous nucleotide base-pairing rule!
Watson and Crick got a Nobel Prize for this.**

Step 3.

Now go ahead and make the DNA 12 nucleotide pairs long. It should look like a ladder with 12 steps.

Step 4.

Pick up your DNA and give it a twist. Congratulations!

