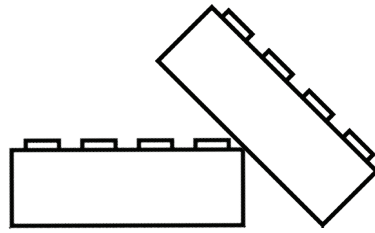


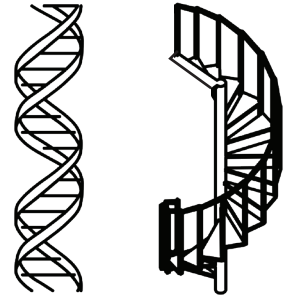
# DNA LEGOS



DNA is the molecule that stores the genetic information of a cell. It is found in all living things. DNA is made up of **nucleotides** that bond together to form a **double helix**, which looks like a spiral staircase.

A nucleotide is made up of two parts: (1) a sugar-phosphate backbone and (2) a base. There are four types of bases - A, T, C, and G - and the base determines which type of nucleotide it is.

When the double helix assembles, each base forms **hydrogen bonds** with another **complementary base**, making a pair. The bases pair in a predictable way: A always pairs with T, and C always pairs with G. These **base pairs** make up the “steps” of the staircase, while the sugar-phosphate backbone forms the “railings.”



A	T
G	C
T	A
C	G

## LEGO CHALLENGE

Now you try to assemble a DNA double helix out of the Lego building blocks provided:

### Bases:



A



T



C



G



Sugar-phosphate  
backbone



Hydrogen bonds



Building platform

