

All living things are made of trillions of cells. Each type of cell has

its own job to do, for example fighting germs that make you sick, or

making flowers' petals bright to attract bees. There are around 200

different types of cells in your body, with 200 different jobs.



If you could see DNA close up,
you would see that is looks
like a cool twisty ladder. This
shape is called a double helix.



Now, these cells don't have a teacher or a boss to tell them

what job to do - our cells are told what to do by DNA. DNA

is like a set of instructions that tell the cell what job it's

going to do.

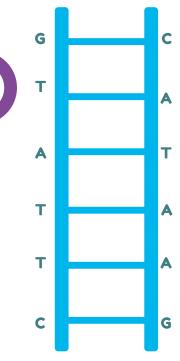


If you untwisted the ladder and looked

very closely, you would see that pairs of letters make up the steps of the

ladder. These letters are A, T, C and

G.



A, T, C and G don't like to be by themselves - so they always pair

up with a friend. But they are very choosy and only ever pair up

with their best friend. A and T are best friends and always stay

together. G and C are best friends and always stay together.

Put these pairs of best friend letters

together and they make up "words"

that are always three letters pairs

long. These words are called codons.

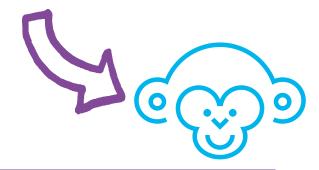
To read and write codons, we only

use the letters on the left. So the

words on the DNA above would look

like this:

GTA TTT GTG GTA AAC CCA GTG



Put lots of these three letter words together and they

make sentences that tell the cell what to do. These

sentences are called genes. Different combinations of

words make the genes for different living beings.

GTA TTC

