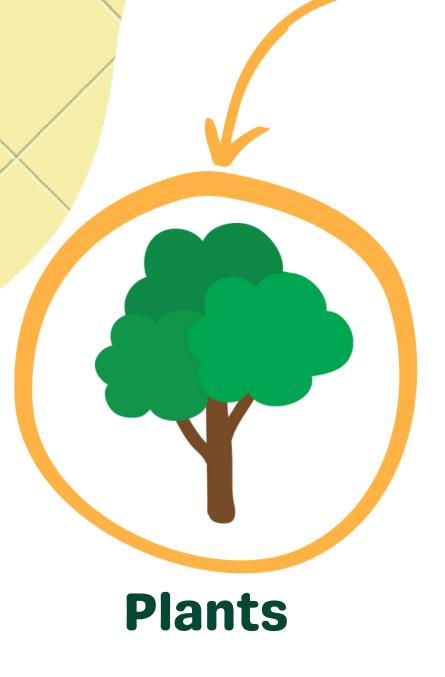
Ages	6 - 14 years approximately	Number of people	60 people approximately	Topic	Biology		
Date							
Purpose	The student is intro scientific concepts learns about possib science. They also knowledge acquire dynamics that stim creativity.	of biology and ble applications of reinforce the ed through playful	Time	50 minutes			
Name of the Activity							
DNA and Biotechnology							
Sequence				Resources			
Presentation (10 minutes)							
Interactive biotechnology presentation with questions to students			Visual support material				
Dynamics							
A) Hanged (10 minutes)							
The activity will be done available. Spaces will be take turns to guess the lett	Boards/Blackboard and markers						
B) Simon says modified version (5 minutes)							
The activity will be given especially designed for sn instruction and the childre and all the children get up room to make room in the	No material required						
Learning Reinforcement	t						
A) Comic (15 minutes)							
The comics are handed or can be colored. The durativary.	Comic, colors and classroom desks						
B) Manual (10+ minutos)						
The manual is distributed learned through a round to	Manual and classroom desks						

DNA	RNA	Bacteria	Chromosome
Virus	Cell	Vaccine	Lab coat
	IIIII AND THE STATE OF THE STAT		

Biotechnology and synthetic biology













Cell Functions









Breathe

Play

+200 types of cells

How many cells do you think there are in your body?

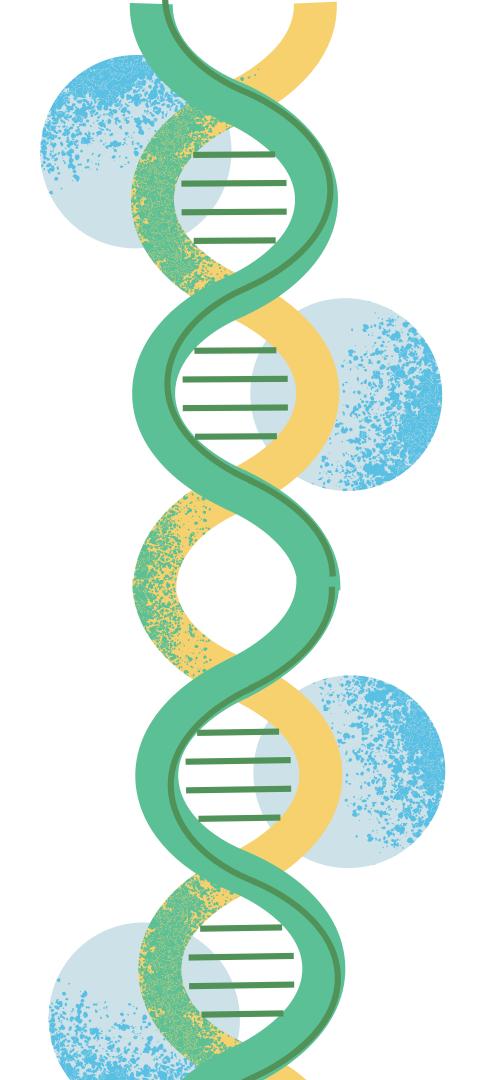




How does each cell know what work to perform?

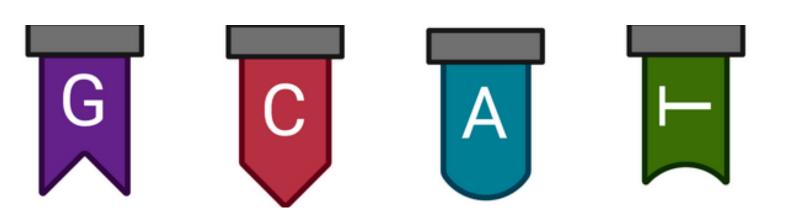
Just like us, our cells follow instructions. Just as we read recipes or instructions for what to do, cells read a molecule called DNA.



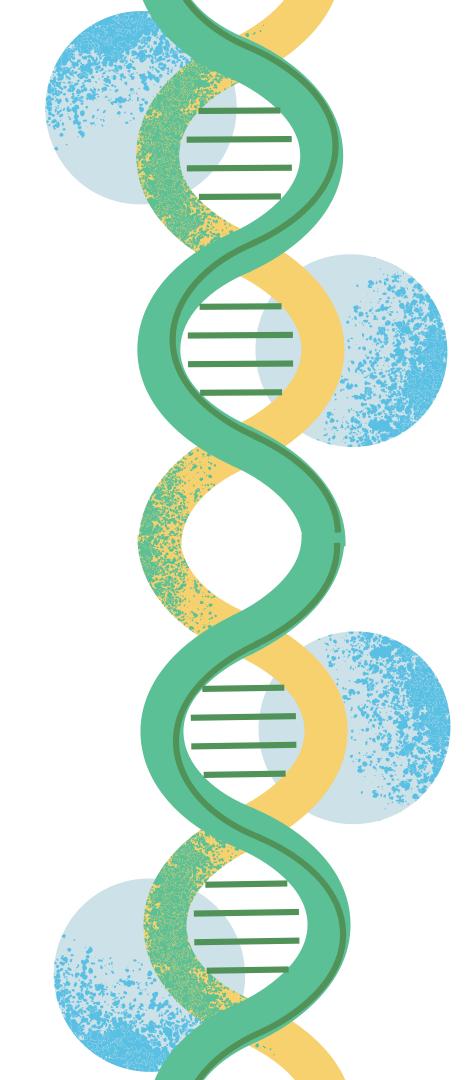


What is DNA?

DNA contains all the information about what each living being is like. It is found in the nucleus of cells and is made up of 4 letters (bases):



Guanine Cytosine Adenine Thymine



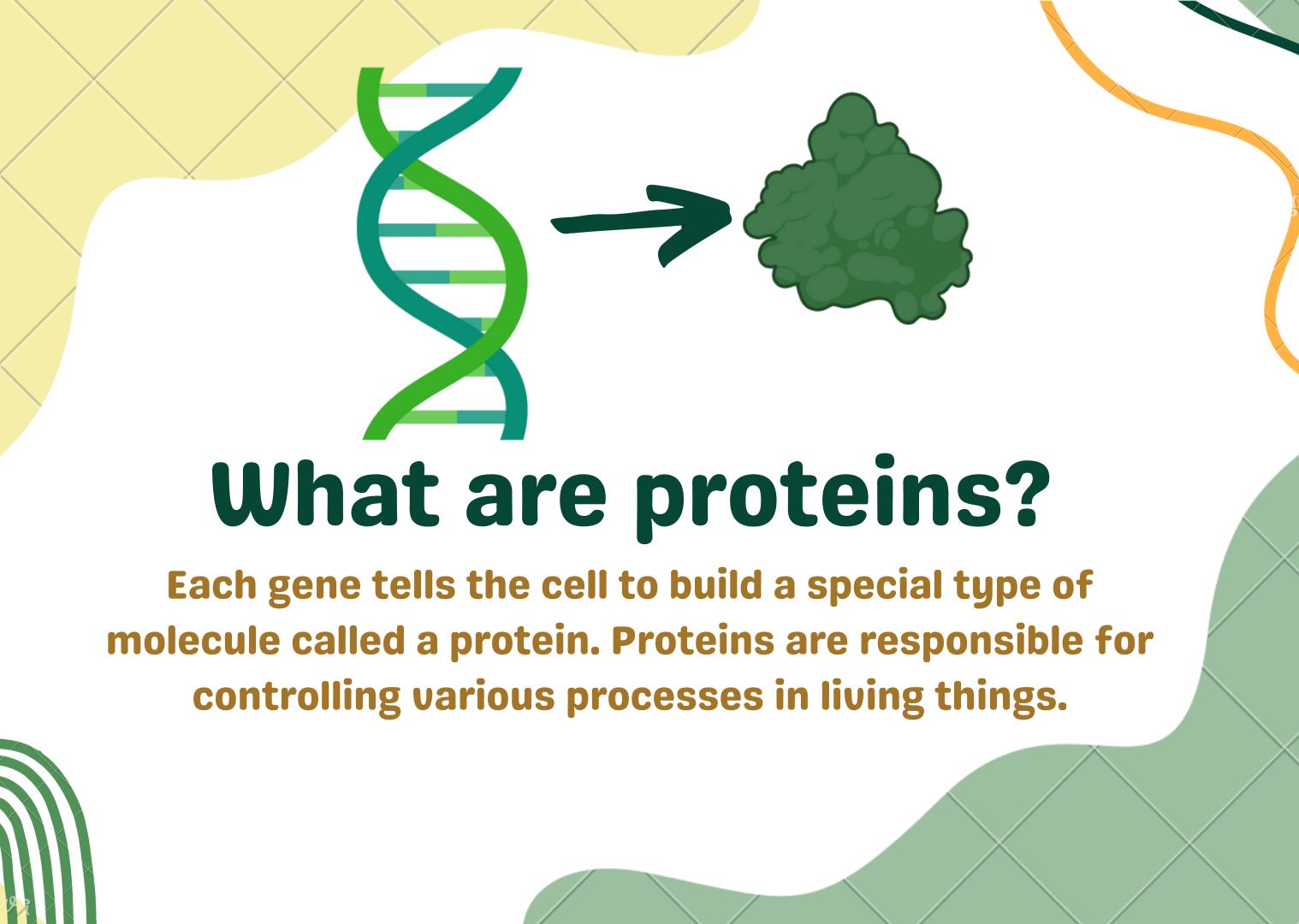




Letters —> Words —> Sentences

Bases—> Codons —> Genes





Hemoglobin

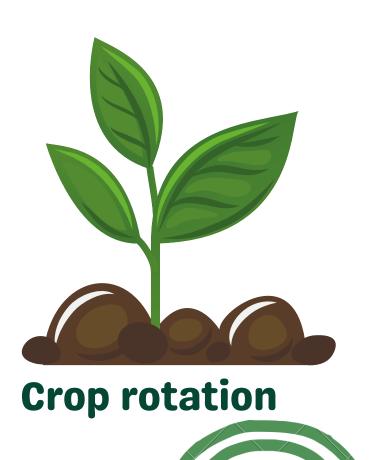
In our body there is a gene that gives rise to a protein called hemoglobin, this protein is responsible for carrying oxygen to each of the cells of our body.





Biotechnology

The application of living organisms to create products or processes.







Synthetic biology

Synthetic biology is a science that seeks to combine engineering with biology by using microorganisms and giving them certain abilities as superpowers to create products that help us improve the quality of life.

Using microorganisms and giving them certain abilities as superpowers to create products that help us improve the quality of life.

Applications = super powers

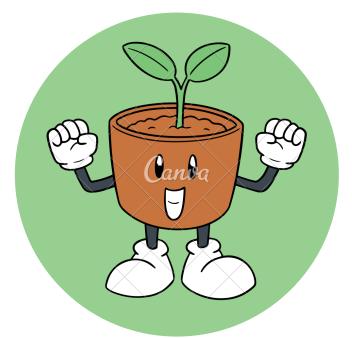
Helping to eliminate pollutants from rivers

Plants can fight pests and become stronger.







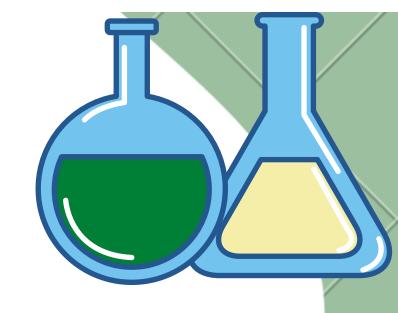




Making vaccines, so that people do not get sick







Thank you



