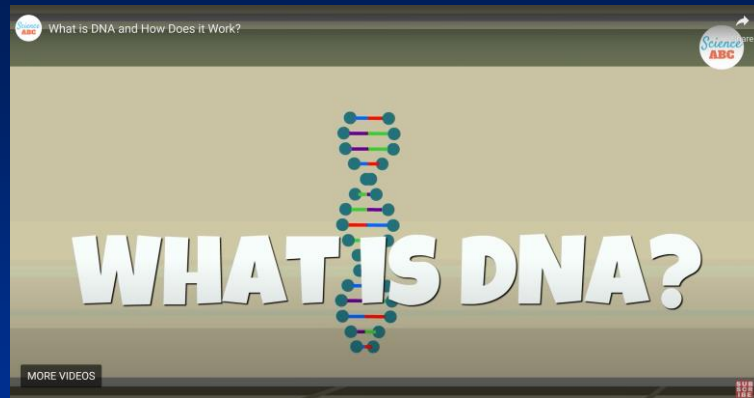


What is a DNA? -- 0:45

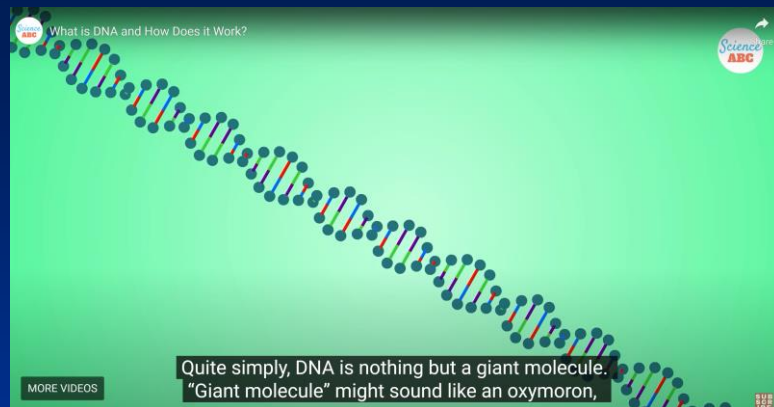


Answer: a section of the DNA molecule

A gene can be a long or short section.

1

What is a DNA? -- 0:53



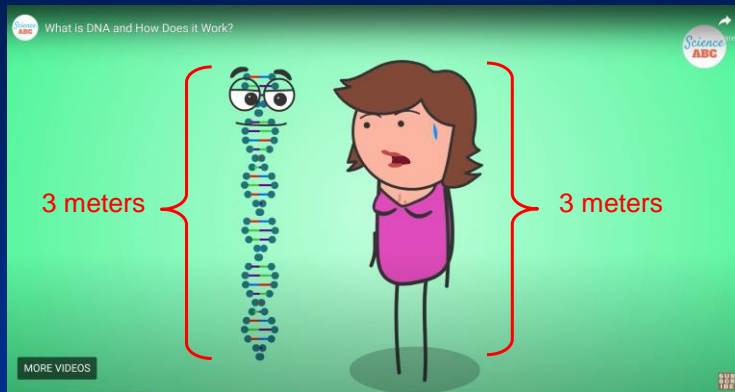
Answer: DNA is ...a giant molecule. "Giant molecule" is an oxymoron.

An oxymoron is a word or phrase that is inconsistent

Examples: "awfully good", "small crowd"

2

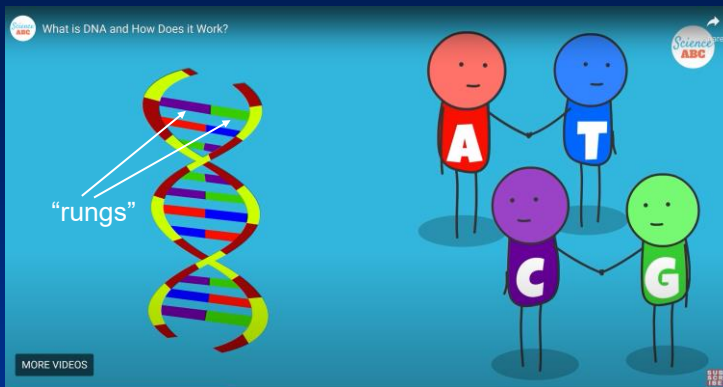
What is DNA – 1:00



This “giant” molecule (DNA) is 6 feet (3 meters) long

3

What is a DNA – 1:40



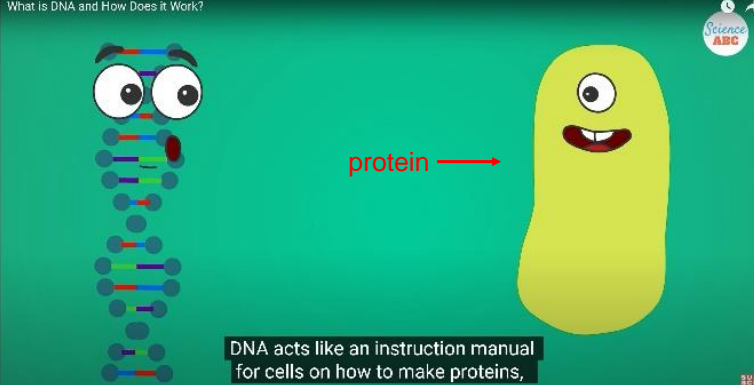
Base pairs are A-T & C-G

They are “rungs on the ladder”

4

What is a Gene– 2:00

What is DNA and How Does it Work?



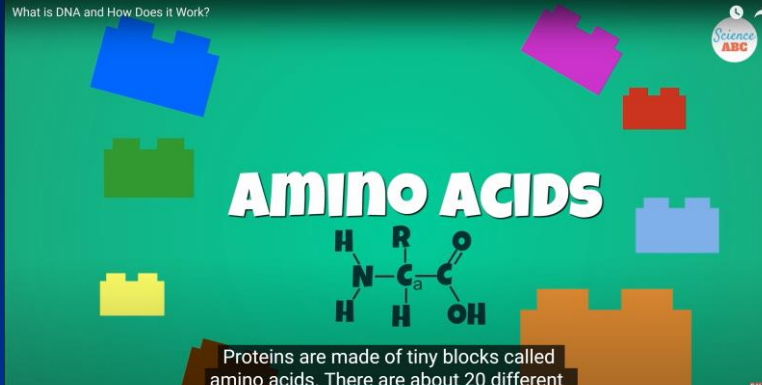
protein →

DNA acts like an instruction manual for cells on how to make proteins,

5

What is a DNA– 2:10

What is DNA and How Does it Work?



AMINO ACIDS

NC(R)C(=O)O

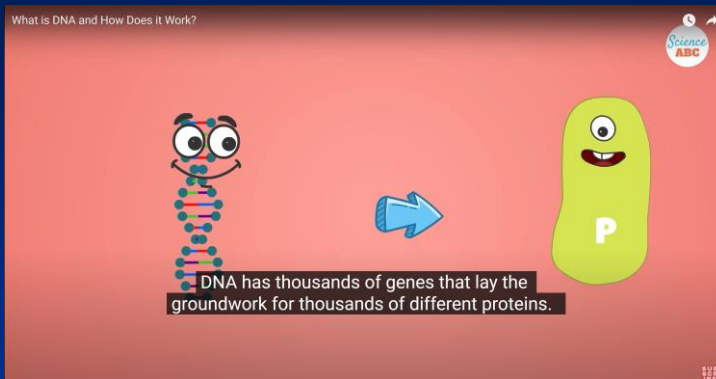
Proteins are made of tiny blocks called amino acids. There are about 20 different

Amino acids are “building blocks”

The video calls these amino acids “Legos”

6

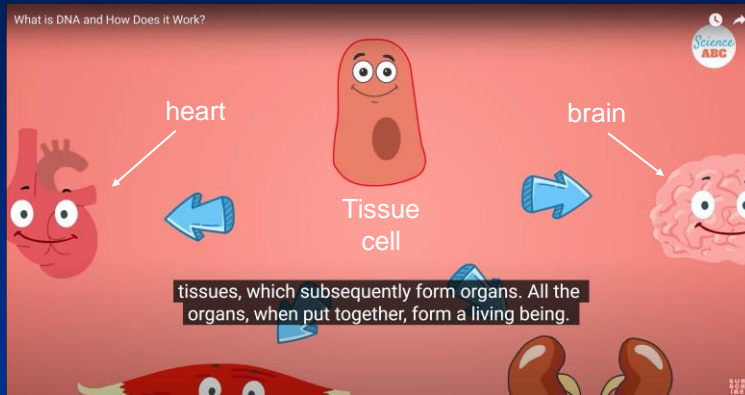
What is a DNA – 2:40



DNA has information for thousands of genes
Genes have information for thousands of proteins.

7

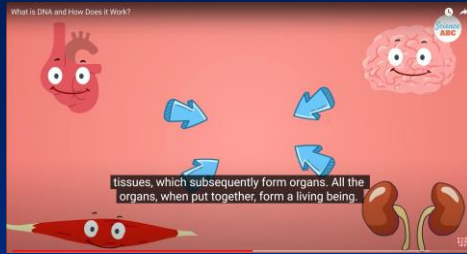
What is a DNA – 2:51



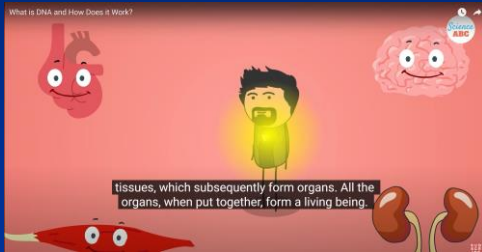
Proteins make up tissues.
Tissues make up organs.

8

What is a DNA – 2:55



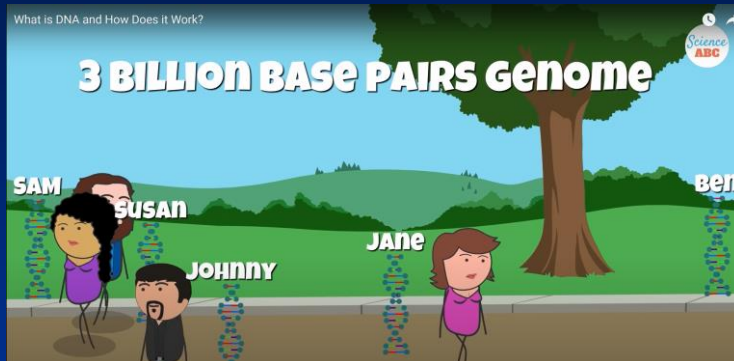
Organs make you...



...you

9

What is a DNA – 4:23



Base pairs are the “rungs on the ladder”

Base pairs are “A-T” or “C-G” (from [slide #4](#) at 1:40)

10

What is a DNA – 4:33



99% of bases (“rungs”) are the same in all humans

1% of bases accounts for differences like hair color, height, etc.