

THE AMAZING WAY DNA WORKS,

What is DNA? It's a chemical found inside every cell in our body. 'DNA' stands for 'deoxyribonucleic acid'. That's a big word! It's also a big molecule. It forms a spiral staircase-like structure called a 'double helix'. It is so thin you can't see it without a very special microscope.



But what does DNA do? It is like an instruction manual. If the cells in your body are the building blocks for making your brain, heart and more, then DNA is what tells those building blocks what to do, how to assemble ... everything!

Plants, animals, bacteria and even some viruses all have DNA. Some of the components of DNA have been discovered in meteorites, and scientists have shown DNA can form in outer space. Who knows, there may even be aliens somewhere in the universe who use DNA like we do.



Q1: DNA stands for?

A type of dinosaur

- Do Not Attack
- Deoxyribonucleic Acid Ribonucleic Acid

Q2: How many letters in the DNA code?

- a.
- b
- 100 25,000

Q3: The DNA structure looks like...

- a spiral staircase a.
- (b a pyramid
- The Eiffel Tower a ball of twine

Q4: A gene is?

- an error in the DNA **a**.
- a segment of DNA with instructions for making a protein
- a type of trousers a movie or rock star
- (d.)

Q5: Proteins are?

- Made up of amino acids a
- The machines that keep our cells working
- Created using the DNA code

All of the above d.

FUP FOR ANSWERS NO PEEKINGI

Q6: DNA is used by what living things to store information

- a. b.
- Humans Plants Bacteria
- C. d Chimpanzees
- e. All of the above
- Q7: We get our DNA from
- Our parents Meteorites a.
- Mutation
- d.

True/False

Q1: There are over 6000 genetic diseases True or False

Q2: Vectors cause genetic diseases True or False

Q3: Mutations are like a typo in the genetic code True or False

Q4: Genetic diseases can only be inherited from your parents True or False

Q5: Gene therapy fixes a genetic disease by fixing the error in the DNA

Q5: D-All of the above Q6: D-All of the above Q6: A-Our parents

True or False

True or False: Q1: True Q2: False - vectors are used to treat them Q3: True Q4: False - while often inherited, many happen

Q1: C-Deoxyribonucleic Acid Q2: B-4 Q3: A-spiral staircase Q4: B-a segment of DNA with instructions for making a protein

HAVE YOU BEEN PAYING ATTENTION?



out of the blue Q5: True



stretched it out, it would be twice as wide as the solar system!







If you think of DNA in terms of computers, 1 gram of DNA can hold 1 million gigabytes of information.



