



High School Science Virtual Learning

Forensic Science

Structure and Function of DNA

May 14, 2020



Forensic Science
Lesson: May 14, 2020

Objective/Learning Target:

Students will be able describe the structure and function of
DNA.

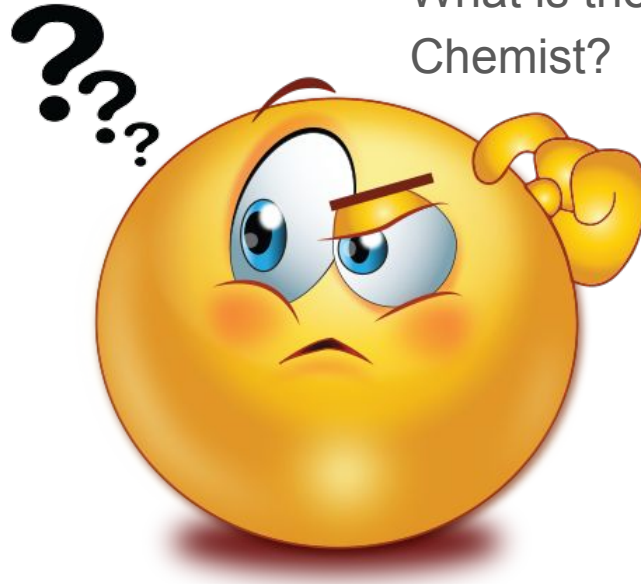
Bellwork: Answer in your notebook or piece of paper

Bellwork 1:

What is arson?

Bellwork 2:

What is the role of a Forensic Chemist?



Bellwork Questions/Answers

Bellwork 1: What is arson? **Criminal act of deliberately setting a fire.**

Bellwork 2: What is the role of a Forensic Chemist? **-They analyze non-biological trace evidence. They compare evidence to known samples and analyze other chemicals.**



What is DNA?

DNA, or deoxyribonucleic acid, is the hereditary material that makes humans and other organisms unique.

Read this [website](#) to learn more about DNA.

Here's another [website](#) to learn more.

Answer the questions on the next slide after you read these websites.

What is DNA? Questions

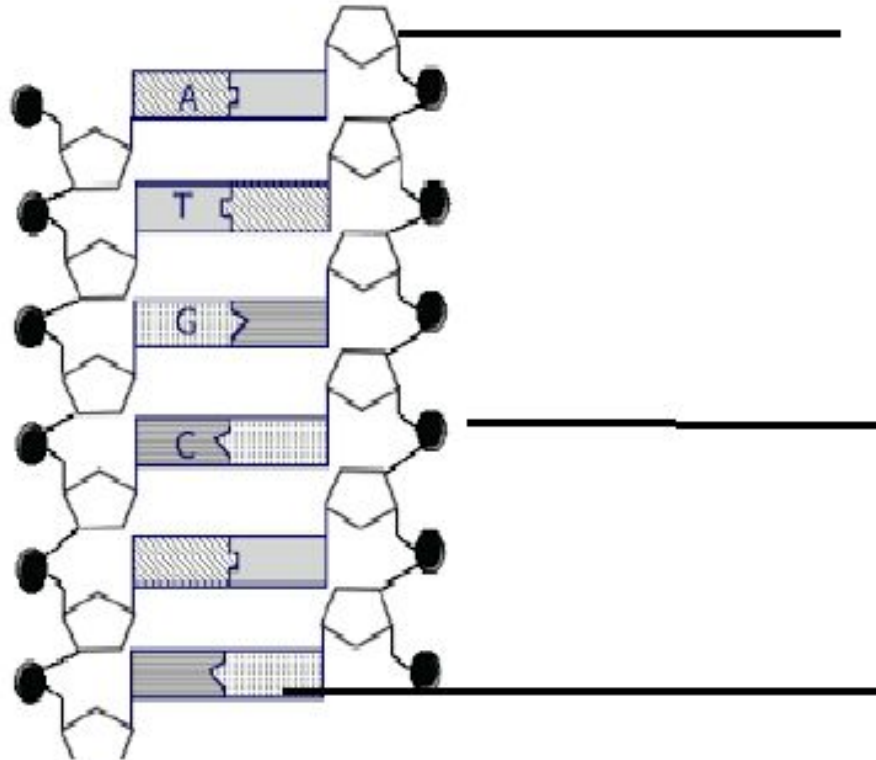
- 1) What are the base pairs that make up DNA?
- 2) What are the parts of a DNA molecule?



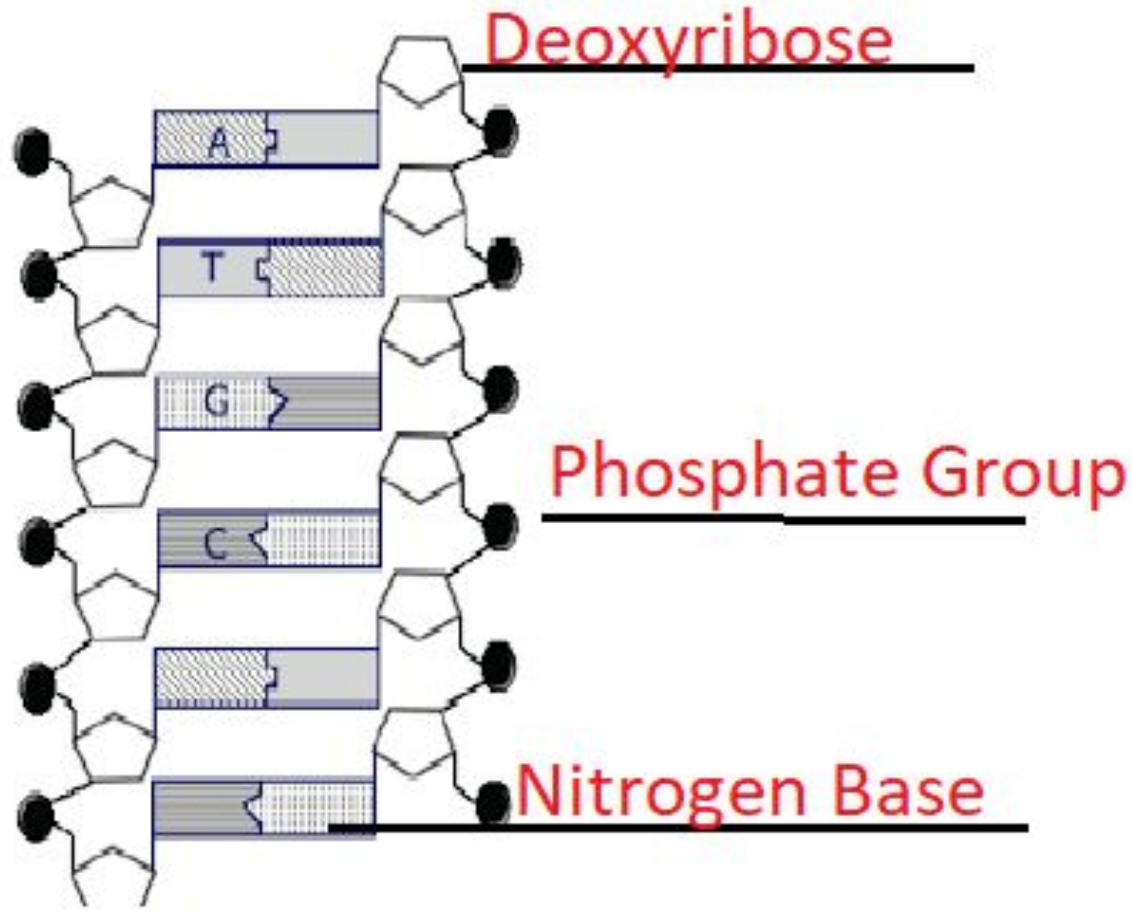
What is DNA? Questions/Answers

- 1) What are the base pairs that make up DNA? -Adenine (A), Thymine (T), Guanine (G), Cytosine (C)
- 2) What are the parts of a DNA molecule? -Nucleotide, deoxyribose (sugar), phosphate group, base pair

Use What you learned- Label the parts of a DNA Molecule



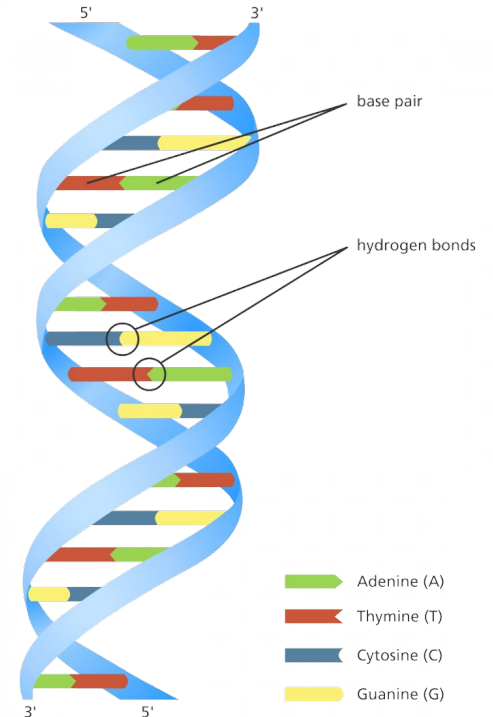
Labeling answers



Function of DNA

Read this [website](#), jotting down notes as you go. Use these notes to help answer the following questions:

- 1) What is the function of DNA?
- 2) What structure has instructions for making proteins?
- 3) What structure of shape is the DNA molecule?
- 4) What creates the rungs of the DNA molecule ladder?



DNA function Questions/Answers

- 1) What is the function of DNA? -DNA contains instructions for life.
- 2) What structure has instructions for making proteins? -Genes have instructions for making proteins for the body.
- 3) What structure of shape is the DNA molecule? -The shape of a DNA molecule is a double helix (like a spiral staircase).
- 4) What creates the rungs of the DNA molecule ladder? -Nitrogen bases (Adenine-Thymine, Guanine-Cytosine) make up the rungs of the DNA ladder.

Additional Resources

Use this [website](#) to quiz your knowledge of DNA

Additional Practice [Quiz](#)

