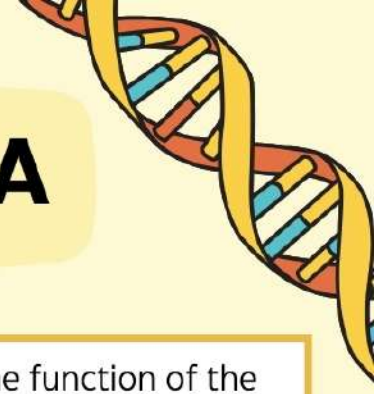


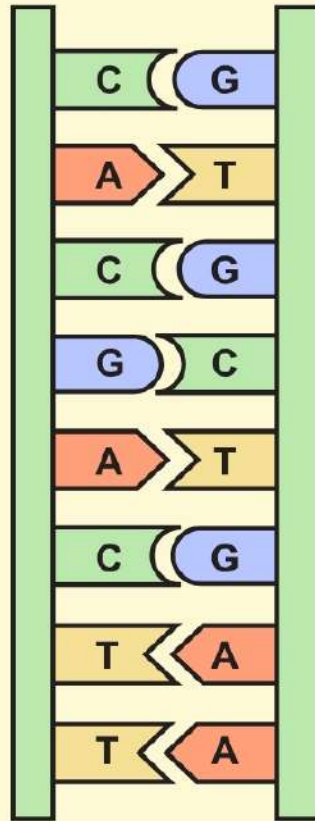


The Structure of DNA



What are the four bases found in DNA?

How would you describe the shape of DNA?



What is the function of the sugar-phosphate backbone in the DNA molecule?

How do the bases in DNA pair with each other?

Match each key term with its correct definition.

Nucleus

Mutation

Chromosome

Gene

An unexpected alteration in an organism's DNA.

A DNA segment that carries the instructions for making a protein.

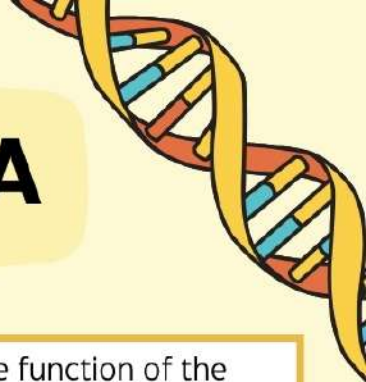
Structures composed of DNA; humans have 46 of them.

The place in the cell that stores all the genetic information.



The Structure of DNA

Answer Sheet

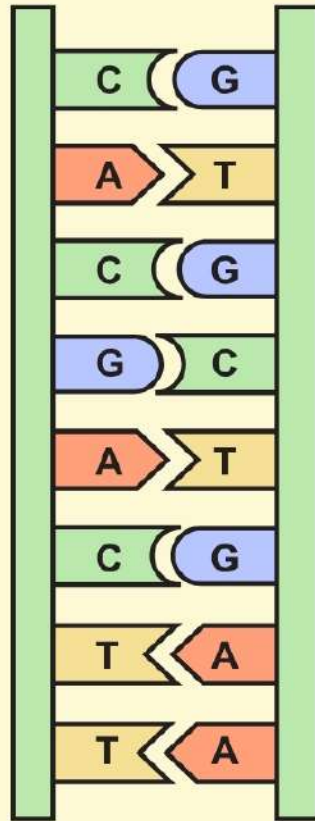
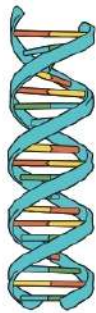


What are the four bases found in DNA?

Adenine (A), Thymine (T), Cytosine (C), Guanine (G)

How would you describe the shape of DNA?

DNA has a double helix shape, like a twisted ladder



What is the function of the sugar-phosphate backbone in the DNA molecule?

The sugar-phosphate backbone provides structural support for the DNA molecule. It forms the outer sides of the double helix

How do the bases in DNA pair with each other?

- **DNA follows a complementary base-pairing rule.**
- **Adenine (A) always pairs with Thymine (T).**
- **Cytosine (C) always pairs with Guanine (G).**
- **These base pairs are held together by hydrogen bonds.**

Match each key term with its correct definition.

Nucleus

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