

Biology Final for 9th Graders

Use this text for the questions below:

To understand the importance of nucleic acids, you must first understand the importance of proteins. Proteins have to have a special shape in order to do their job. That shape is determined by the order of the amino acids. A cell has to be able to make all the proteins in just the right amino acid arrangement in order for proteins to do their job. Without the proper shape the proteins can't do their job. This amino acid arrangement comes from nucleic acids, aka DNA.

Nucleic acids store the code that tells how the amino acids should be arranged on the proper shape of the protein can be made. There are two types of nucleic acids: DNA (deoxyribonucleic acid) and RNA (ribonucleic acid). The building blocks of DNA and RNA are nucleotides. Nucleotides get linked together to make DNA and RNA, like the amino acids get linked together to make proteins.

A nucleotide is made of three parts, a sugar (glucose or deoxyglucose), a phosphate group, and a nitrogen base. So the elements that make up the nucleotide are carbon, hydrogen, oxygen, phosphorus, and nitrogen.

In DNA, there are four different types of nitrogen bases. They are called adenine, thymine, guanine, and cytosine. DNA is made up of two strands of nucleotides, linked together in a twisted ladder shape called a double helix. The two strands are held together by complementary bases on opposite strands. Thymine has a shape that complements (fits together like a puzzle) adenine. So every nucleotide that has a thymine base has an adenine base across from it. Cytosine and guanine are also complementary in shape and they fit together like puzzle pieces.

RNA is a nucleic acid but it is a single strand of nucleotides that are in a straight chain. Its job is to be the copy of a section DNA that gets used to make the cell's proteins. DNA's role is to be the master copy that stores all the genetic information of a cell.

Match them (Questions 1-5)

1. Molecule that stores a code
2. adenine, guanine, cytosine, thymine
3. shape of a DNA molecule
4. building blocks of a protein
5. building blocks of DNA and RNA

- A-Double helix
- B-Amino acids
- C-Nucleotides
- D-DNA
- E-Nitrogenous bases

6. Which of the following animals is not an invertebrate?
- A. shrimp B. octopus C. snail

- D. bee, ant, mouse E. Prawn

All or none? (Questions 7-11)

A for All, B for Some

7. Birds with a beak
8. Birds with feathers
9. Birds with talons
10. Birds with wings
11. Birds with webbed feet

12. Where do plants get the energy to make organic molecules?

- A. Vitamins & Minerals C. Sugar D. Water E. Sunlight

True (A) or False (B) (13-25)

Study Guide For 9th Grade Biology Final

Tobias Bleicker



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