

Name: \_\_\_\_\_

Score: \_\_\_\_\_

**18 Multiple choice questions**

Term

1 of 35

What is the shape of DNA?

- ☐ Double Helix
- ☐ Triple Helix
- ☐ Single Helix
- ☐ Single Strand

Term

2 of 35

What sugar is found in RNA?

- ☐ Amino Acids
- ☐ Deoxyribose
- ☐ Sugar Ribose
- ☐ Sugar And Phosphate

Term

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\_\_\_\_ not DNA can leave the nucleus through \_\_\_\_ in the nuclear envelope.

- ☐ Proteins and cell membranes
- ☐ DNA and ribosomes
- ☐ Lipids and cytoplasm
- ☐ RNA and nuclear pores

Term

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What pairs with adenine?

- ☐ Uracil
- ☐ Guanine
- ☐ Thymine
- ☐ Cytosine

Term

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The two purines in DNA are?

- ☐ Cytosine and Thymine
- ☐ Adenine and Guanine
- ☐ Cytosine and Guanine
- ☐ Cytosine and Uracil

Term

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How do some cells become brain cells and others become skin cells, when DNA in all cells are the same?

- ☐ Cellular Enzymes
- ☐ The Cell Wall
- ☐ Cellular DNA
- ☐ Cell Receptor For Virus

Term

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Example of a pentose sugar?

- ☐ ribose
- ☐ fructose
- ☐ glucose
- ☐ deoxyribose

Term

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Why can't the code be taken directly from DNA?

- ☐ To large
- ☐ Small enough to fit through pores
- ☐ Not job description
- ☐ To small

Term

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What sugar is found in DNA?

- ☐ Glucose
- ☐ Ribose
- ☐ Fructose
- ☐ Deoxyribose

Term

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What two scientist established the structure of DNA?

- ☐ James Watson and Francis crick
- ☐ Charles Darwin and Gregor Mendel
- ☐ Isaac Newton and Galileo Galilei
- ☐ Albert Einstein and Niels Bohr

Term

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Full name of DNA?

- ☐ Cellular DNA
- ☐ Dihybrid Nuclear Acid
- ☐ Ribose Nucleic Acid
- ☐ Deoxyribose Nucleic Acid

Term

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What is it called when DNA is copied to make identical DNA?

- ☐ Replication
- ☐ Transduction
- ☐ Transformation
- ☐ Translation

Term

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Where are proteins made?

- ☐ Endoplasmic Reticulum
- ☐ Nucleus
- ☐ Mitochondria
- ☐ Ribosomes

Term

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What makes the "rungs" of DNA?

- ☐ Nitrogen bases
- ☐ Phosphate groups
- ☐ Sugar Ribose
- ☐ Ribosomes

Term

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How many strands of nucleotides does mRNA have?

- ☐ Four
- ☐ Five
- ☐ One
- ☐ Two

Term

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What bonds between bases must be broken to copy DNA?

- ☐ Hydrogen
- ☐ Sodium
- ☐ Ionic
- ☐ Nitrogen

Term

17 of 35

What replaces deoxyribose on RNA?

- ☐ Nitrogen Bases
- ☐ Amino Acids
- ☐ Sugar Ribose
- ☐ Water

Term

18 of 35

Proteins are made where in the cell?

- ☐ Chloroplasts
- ☐ Endoplasmic Reticulum
- ☐ Ribosomes
- ☐ Mitochondria

**17 Matching questions**

- ☐ Nucleotides are made of What?
- ☐ Sides of DNA are made of what?
- ☐ Why is RNA necessary to act as a messenger?
- ☐ What is the double helix?
- ☐ \_\_\_\_ on chromosomes code for specific \_\_\_\_ in a cell.
- ☐ DNA can be found in what organelles of the cell?
- ☐ What is a gene?
- ☐ what important polymer is located in the nucleus?
- ☐ Where is DNA also found?
- ☐ DNA is made of repeating units called?
- ☐ What are non-coding segments of DNA called?
- ☐ Why is the DNA molecule referred to as the "blueprint of life"?
- ☐ How do the bases bond together?
- ☐ \_\_\_\_ is the instructions for making a cell's \_\_\_\_
- ☐ The sides of the DNA ladder are composed of what?
- ☐ Where in the cell are chromosomes located?
- ☐ The rungs of the DNA ladder are made of what?

- A. Sugar and Phosphate
- B. Sugar, Phosphate, and Nitrogen base
- C. Sugar and phosphate groups
- D. Small enough to fit through pores
- E. Shape of the DNA
- F. Chromosome
- G. DNA sequence and Protein
- H. Nucleotides
- I. 4 nitrogen bases(A,G,T, and C)
- J. Chromosomes and chloroplasts
- K. Genes and triat
- L. Segment of DNA that programs a protein.
- M. Nucleus
- N. Because this tells the cell what to do like a blueprint tells you how to build something.
- O. Adenines with Thymine  
Guanines with cytosine
- P. Introns
- Q. Mitochondria and chloroplast