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# Mastering Biology Chapter 16

A difference between a DNA and an RNA molecule? – answer DNA is double-stranded, whereas RNA is single-stranded.

(With some exceptions) DNA is a double-stranded molecule and RNA is a single-stranded molecule.

Nucleotides are composed of - answer a pentose sugar, a nitrogenous base, and a phosphate group

Phosphate groups contain - answer phosphorus

You can tell that this is an image of a DNA nucleotide and not an RNA nucleotide because you see a \_\_\_\_\_. - answer sugar with two, and not three, oxygen atoms

Which of these nitrogenous bases is found in DNA but not in RNA? - answer thymine

DNA contains thymine; RNA does not.

Which letters are purines? – answer AG

Which letters are pyrimidines? – answer CUT

In a nucleotide, the nitrogenous base is attached to the sugar's \_\_\_\_\_ carbon and the phosphate group is attached to the sugar's \_\_\_\_\_ carbon. - answer 1' ... 5'

The nitrogenous base is attached to the sugar's 1' carbon and the phosphate group is attached to the sugar's 5' carbon.

Nucleic acids are assembled in the \_\_\_\_\_ direction. - answer 5' to 3'

New nucleotides are added to the 3' end of a growing polynucleotide.

In a DNA double helix an adenine of one strand always pairs with a(n) \_\_\_\_\_ of the complementary strand, and a guanine of one strand always pairs with a(n) \_\_\_\_\_ of the complementary strand. - answer thymine ... cytosine

This is referred to as specific base pairing.

In an analysis of the nucleotide composition of DNA, which of the following will be found? - answer  $A + C = G + T$

# Mastering Biology Chapter 16 Answers

**DP Hallahan**



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