

DNA, RNA and Protein Synthesis worksheet

What is the name of the replication method of DNA?
Semi-conservative replication

In DNA, adenine pairs with thymine, and guanine pairs with cytosine.

Draw a strand of DNA. Draw the complementary strand of DNA.

A-T-A-A-T-T-G-G-G-A-T-G-G-A-T-G-T

T-A-T-T-G-G-G-T-T-T-A-G-G-T-A-G-T-A

Name the three types of RNA. mRNA rRNA tRNA

Name the two parts of protein synthesis.

Transcription

Translation

The making of mRNA from DNA is called transcription.

Where does transcription take place?
In the nucleus

What does transcription take place?

In the cytoplasm

In the ribosome

The three steps of translation are initiation, elongation and termination.

What carries the amino acids to the ribosome?
tRNA

rRNA

What helps put the amino acids together at the ribosome?
mRNA

tRNA

It is made sequence codes for the amino acids

What is the name of this sequence in DNA? codon anticodon

(DNA- triplet)

mRNA- codon

tRNA- anticodon