

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, then 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-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

Where does translation take place?
In the cytoplasm

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

What carries the amino acids to the ribosome?
tRNA

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

It is how sequence codes for the amino acid.

What is the name of this sequence in DNA? codon anticodon
DNA: triplet mRNA: codon tRNA: anticodon