

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.

There is a strand of DNA. Give the complementary strand of DNA.

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

T-A-T-T-G-G-G-T-T-T-A-A-A-T-T-A-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?
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 base sequence codes for the amino acid.

What is the name of this sequence on DNA? mRNA? tRNA?
DNA: template mRNA: code tRNA: anticodon