PROTEIN SYNTHESIS RAP

DNA, DNA Replication

DNA, mRNA transcription

mRNA to proteins called translation

That’s how our cells are protein making stations

DNA, Deoxy-ribonu-cleic acid

Holds genetic info like you’re short or massive

Two strands spun together – double helix

Spiraling up like you’re in the remix

The strands hold together through base pairing

Nucleotides make loose contact like staring

Thymine makes two bonds to match adenine

Guanine triple bonds to pair cytosine

DNA replicates by first unzipping

Now it’s two separate strands with one side missing

An enzyme does the work, DNA polymerase

Pulls the strands apart, puts them back in the right place

Nucleotides are added to match the base pair

Things have to match perfect like the clothes an ace wears

The final step is proofreading the new strands

Make sure the order’s right like the notes from my band

In the nucleus, mRNA is made

Transcription is the name of this phase

DNA gets unzipped by helicase

Then new bases are added RNA polymerase

DNA gets read in the 3 to 5 direction

Bases are added in 5 prime to 3 prime sections

mRNA that is made is in a single strand

Uracil’s the new base, kick thymine off the land

Now it’s time for mRNA to translate

Turning into proteins becomes it’s fate

This takes place in the cytoplasm

So it leaves the nucleus, like MC Dub smashed ‘em

In the cytoplasm are ribosomes

That the mRNA goes through, finds a home

This is where the translation will take place

Amino acids come together, find their space

On mRNA 3 bases make a codon

Each three bases code for a new one

In the ribosome, codons match tRNA

Each anticodon holds an amino A

As codons pass through the ribosome

Amino acids join together, find a new home

Amino acids combined is called a protein

A stop codon marks the end of the scene

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