## **Protein Synthesis Review**

is the process of taking the DNA code and turning it into
mRNA. It occurs in the The area of one gene on DNA
mRNA. It occurs in the <u>Mucleus</u> . The area of one gene on DNA becomes unzipped by RNA polywerase. RNA <u>nucleofides</u> float into
place, arranged by complimentary base pairing. In the case of the mRNA,  wald pairs with adenine and gravine with cytosine.
This reaction is catalyzed by RNA polymorase. The mRNA detaches from the
This reaction is catalyzed by RNA polymorase. The mRNA detaches from the DNA and leaves the through a The
result of this process is a WRNA molecule that represents a complementary copy of
one of DNA.
Translation is the process of mRNA, with the help of <u>E</u> RNA,
assembling amino acids at the into a protein. Once the mRNA is
in place at that organelle, a tRNA molecule with aanti-covaon_ to match the
mRNA'sfloats in with its attachedCLMUO GCIA (A
series of three nucleotides on mRNA is called a <u>codor</u> and is enough
information to code for <u>l</u> of the 20 <u>annino acids</u> .) A second specific
tRNA molecule floats in with its attached almo and an enzyme
catalyzes a <u>Condensation</u> reaction forming a <u>Covalent</u> bond
between two amino acids. This bond is also called a <u>peptide</u> bond
because it is used in forming a protein. The tRNA leaves the amino acid behind and goes
to retrieve another. The process repeats until a codon is reached,
which does not act as a code for an amino acid.
X at A
Thus, the gene on has been used to create a strand of
wrnA that in turn determines the order of <u>Awako Creds</u> in
hormones transport profess, ant todies etc. (many
possible quisisers;

