Name	Period

Regents Biology

Dare

LAB HOW ARE PROTEINS MADE IN CELLS

"DNA gets all the glory, but proteins do at the work?"

DNA is the molecule that stores the genetic information in your cells. That information is coded in the four <u>bases</u> of DNA C (cytosine). O (guarane), A (adenine), and T (thymne). The DNA directs the functions of the cell on a daily basis and will also be used to pass on the genetic information to the next generation. Decause of its critical role in all the functions of the cell, DNA is kept protected in the nucleus of your cells.

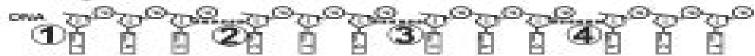
ONA is organized in sections called **games**. Genes code for **groteins**, and it is proteins that do all the work in the cell. They function as **structural proteins** — serving as the building blocks of cells and bodies. And they function as **engages** — directing all the chemical reactions in living organisms.

Preteris are made in the <u>cytoplasm</u> by <u>ribosomes</u>. So the information from DNA must be transmitted from the nucleus to the cytoplasm. Each gene on the DNA is read and codes directly for a <u>reseasement SNA (refINA)</u> incleases. The mRNA is made by matching its complementary bases. E.G., A, and <u>U (ampli)</u> — to the DNA bases. The mRNA incleases the resilieus and carries the code for reaking the protein from the DNA gene to the ribotecture in the cytoplasm.

The ribosome reads the sequence of bases on the mRNA in sets of three — the triplet <u>easters</u>. Another type of RNA — <u>sognition RNA (IRNA)</u> — brings the protein building blocks — <u>ornino acids</u> — to the ribosome as they are needed. The ribosome bonds the arrivo acids together to build the protein coded for by the gare back in the nucleus.

Proposition and

 Your group should obtain one sheet of paper with your tour sections of CNA. Cut the stress out along straight lines and tape them together to make a long one-sided DNA molecule. Each section is numbered. Lay them out on the deak from left (#1) to right (#4). See the clagram below.



- 2. We are going to use this section of our DNA as a gene to make a protein the cell needs. Remember it used to be part of a double-stranded DNA molecule. But it has already been unalphed and now will be used as the template to build your mRNA, one base at a time. So that design an RNA polymerase erupying to do this mRNA synthesis job.
- TRANSCRIPTION: You have been supplied with mfNA nucleotide bases. Build a mfNA recleoule from this gene by matching the mfNA bases to your DNA template, one base at a time. Tape this mfNA molecule along its length to simulate the strong bonds that the RNA polymerase makes between the mRNA bases. This way, it will be a stable molecule and can

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Fazale Rana

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Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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