TRANSCRIPTION:

NAME:_____

Using your manipulatives transcribe the following DNA strands into mRNA. Draw your resulting strands in the boxes below:

1. AATGCT
2. GACGTA
3. ATAGCA
4. CGTAGC

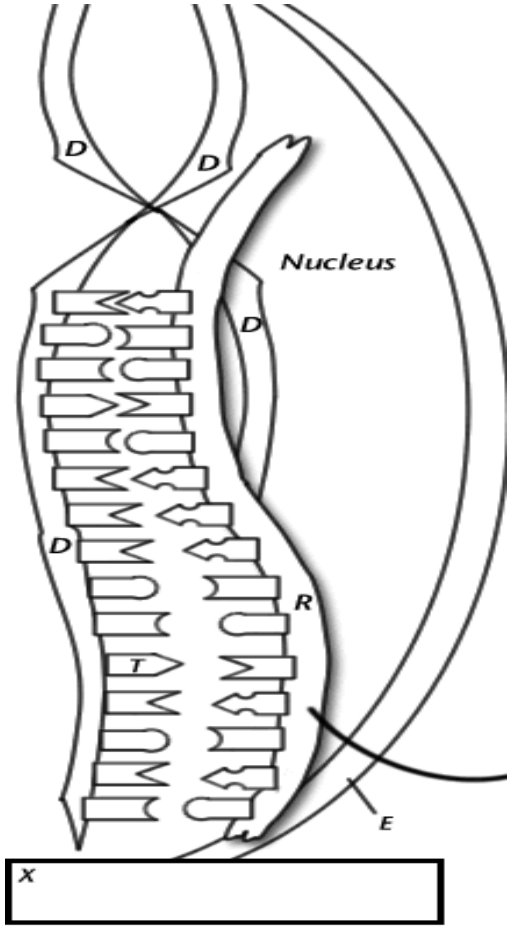
RNA, Ribonucleic Acid is very similar to DNA. RNA normally exists as a single strand (and not the double stranded double helix of DNA). It contains the same bases, adenine, guanine and cytosine. However, there is no thymine found in RNA, instead there is a similar compound called uracil.

Transcription is the process by which RNA is made from DNA. It occurs in the nucleus.

Label the box with the x in it near the nucleus with the word TRANSCRIPTION and proceed to color the bases according to the key below

Thymine =
Adenine =
Guanine =
Cytosine =
Uracil =

Color the strand of DNA (D) and the strand of RNA (R).
Color the nuclear membrane (E).



1. What are the four nitrogen bases in RNA?
2. Where is RNA made?
3. Why is RNA made?
4. What protein is responsible for making RNA?