The process of assembling a protein from RNA is called translation.

1. The process of making RNA from DNA is called transcription.

2. How many bases are in an mRNA?

3. How many bases are in a codon?

4. How many mRNA bases are attached to a single transfer RNA?

5. Translation occurs in the cytoplasm, specifically on the ribosomes. The mRNA made in the nucleus travels out to translation in the cytoplasm. mRNA is a similar compound called nucleic acid.

Transcription is the process by which RNA is made from DNA. It occurs in the nucleus. Label the box with the x in the transcription area with the word TRANSCRIPTION.

DNA strand of DNA (black), dark blue (d), and the strand of RNA (light blue (r), gray).

Label the box with the x in the translation area with the word TRANSLATION.

The bases are colored light blue, as it was colored in the nucleus. A strand of RNA is assembled and the amino acids are assembled, but the bases are the same nucleotide. Color the amino acids, ribosome, and cytosol green. The ribosome is then translated into an amino acid sequence. Color the amino acid sequence green. The mRNA made in the ribosome will be translated into an amino acid sequence. Color the amino acid sequence green.