Name_____Date_____Per_____

DNA Sentence - Decoding a DNA Message Through Protein Synthesis

Your instructor will give you a simple DNA code message. Then, using complimentary base-pairing, write in the mRNA that would be created using the DNA code as a template. Once the mRNA has left the nucleus and attached onto a ribosome, tRNA will bring amino acids to the mRNA strand. Then, print out the **first letter of each amino acid** to discover your "secret message." The accuracy of your message is related to your grade. You must follow the procedure of protein synthesis as performed in your cells. ***(HINT: the "STOP" codon means a space in between words in your sentence.)***

_____ is my DNA message number.

Copy DNA message (3 nucleotide bases to a line; the "/" separates groups of three nucleotides to make it easier to read)

_____/ _____/_____/ _____/_____/ _____/_____/ _____/_____/

_____/_____/ _____/_____/ _____/_____/ _____/_____/ _____/

_____/_____/ _____/_____/ _____/_____/ _____/_____/ _____/

_____/_____/ _____/_____/ _____/_____/ _____/_____/ _____/

mRNA molecule (built to match DNA message)

_____/ _____/_____/ _____/_____/ _____/_____/ _____/_____/

_____/_____/ _____/_____/ _____/_____/ _____/_____/ _____/

_____/_____/ _____/_____/ _____/_____/ _____/_____/ _____/

_____/_____/ _____/_____/ _____/_____/ _____/_____/ _____/

First letter of appropriate amino acid (This will spell out a sentence). Use your mRNA chart in your book.

_____

_____