Name: _____ Date: _____ Section_____

Protein Synthesis Worksheet

Part A:
1. Use the DNA code to create your mRNA code.
2. Use the mRNA code to create your tRNA anti-codons
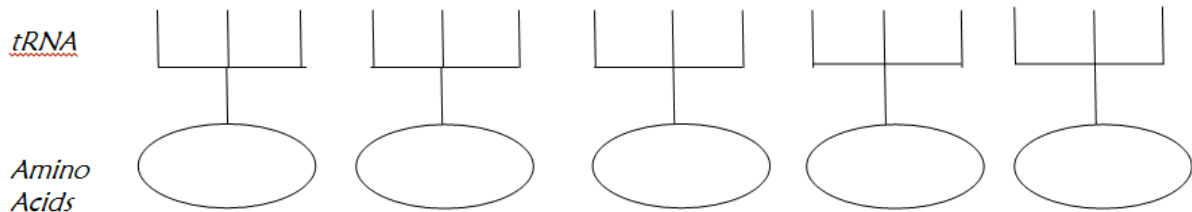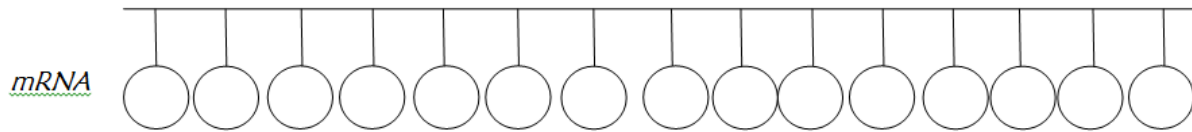3. Use the mRNA code and the Codon wheel to determine your amino acids.
4. Answer any questions by **circling** the correct answer.

DNA T A C G C G C A G A G C T A G

mRNA

tRNA

Amino Acids

DNA A C A A A A C G G G T G T G A

mRNA

tRNA

Amino Acids

DNA (A)(T)(G)(C)(T)(G)(G)(T)(C)(A)(C)(C)(A)(T)(T)

mRNA 〇〇〇〇〇〇〇〇〇〇〇〇〇〇〇

tRNA

Amino
Acids
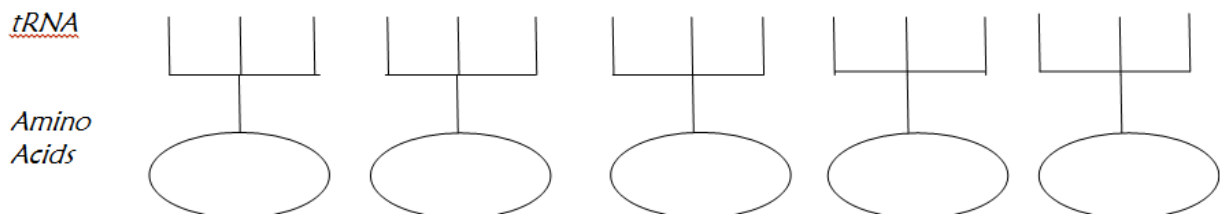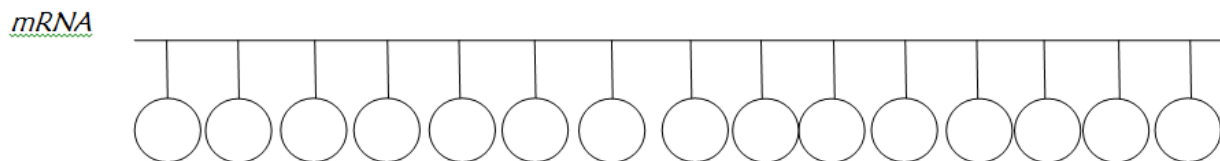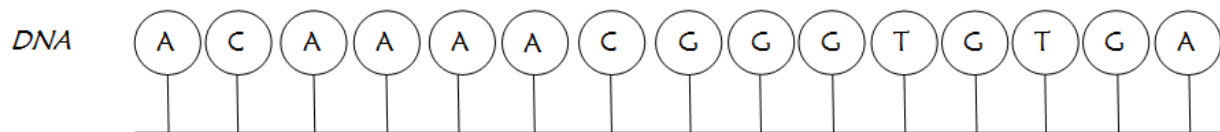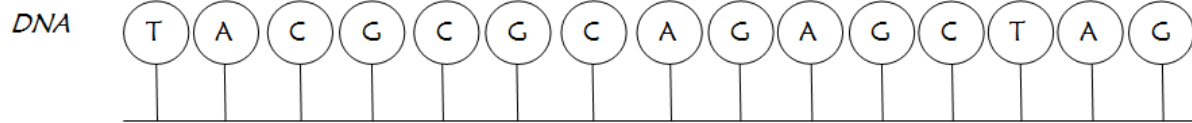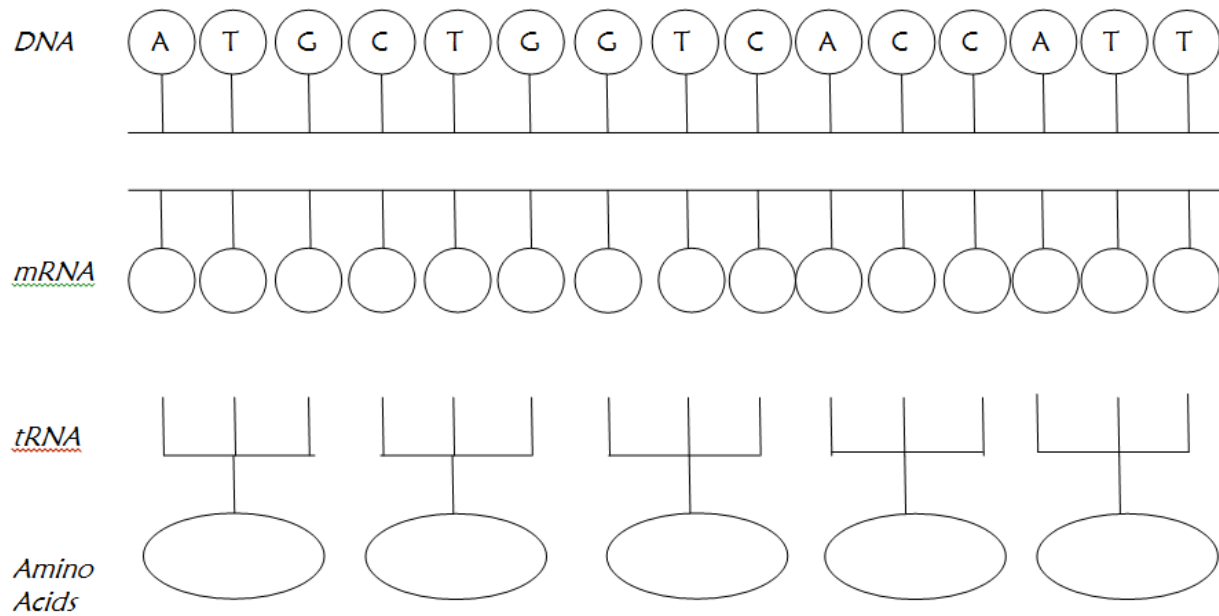
Part B: Circle the term that best completes each statement.

1. mRNA is made during (transcription/translation).

2. mRNA is made in the (cytoplasm/nucleus).

3. DNA is located in the (nucleus/cytoplasm)

4. (mRNA/rRNA) is used to carry the genetic code from DNA to the ribosomes.

5. (tRNA/rRNA) makes up the ribosome.

6. (DNA/RNA) uses uracil instead of thymine.

7. (RNA/amino) acids make up a protein.

8. Transcription takes place in the (nucleus/cytoplasm).

9. tRNA is used in (translation/transcription).

10. tRNA uses (anticodons/codons) to match to the mRNA.

11. Proteins are made at the (nucleus/ribosome).

12. (tRNA/mRNA) brings amino acids to the ribosome.

13. tRNA is found in the (nucleus/cytoplasm).

14. (Translation/Transcription) converts mRNA into a protein.

15. Translation takes place in the (cytoplasm/nucleus).

16. (DNA/RNA) can leave the nucleus.

17. (Translation/Transcription) converts DNA into mRNA.