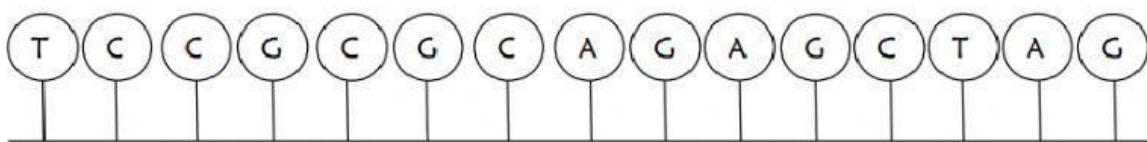


**Protein Synthesis Practice****Directions:**

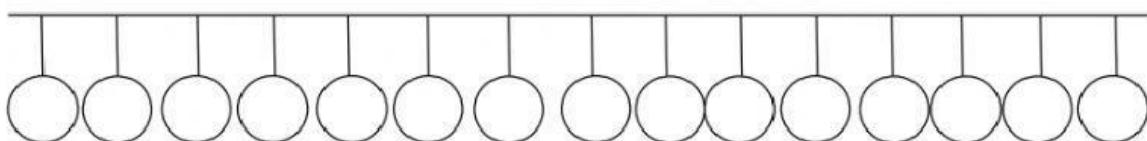
- Use the DNA sequence to create your mRNA codons.
- Use the mRNA codons to create your tRNA anticodons.
- Use the mRNA codons and a Codon Chart to determine your amino acid sequence.
- Answer any questions by selecting the correct answer.

1.

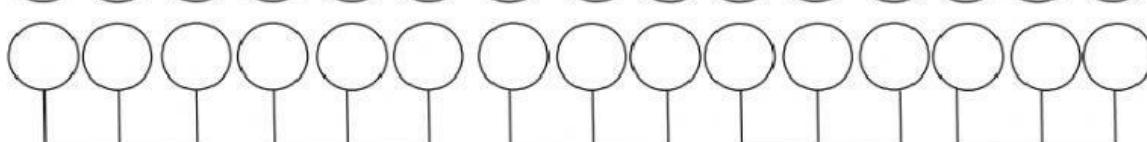
DNA



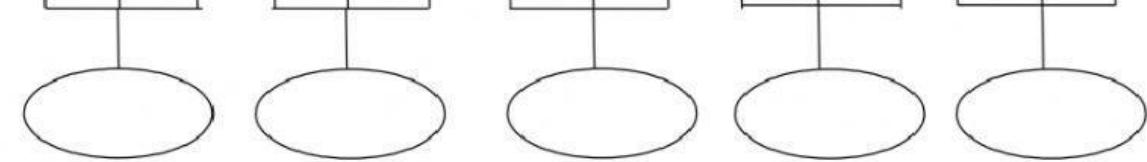
mRNA



tRNA



Amino acids

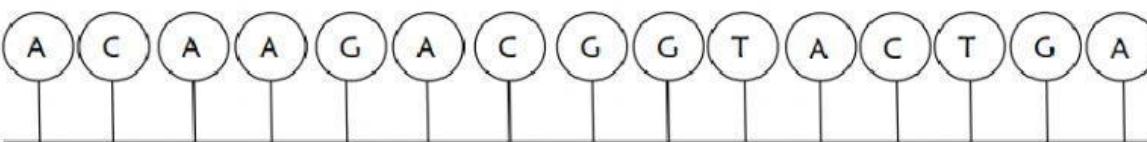


2. mRNA is made during (transcription/translation).

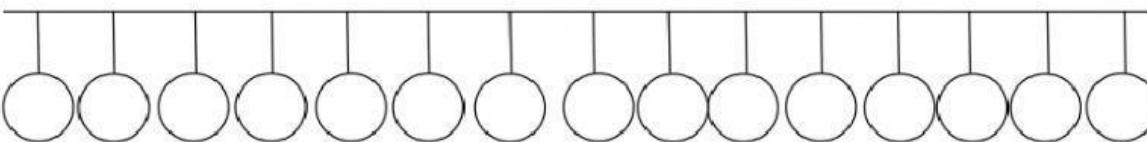
3. mRNA is made in the (cytoplasm/nucleus).

4.

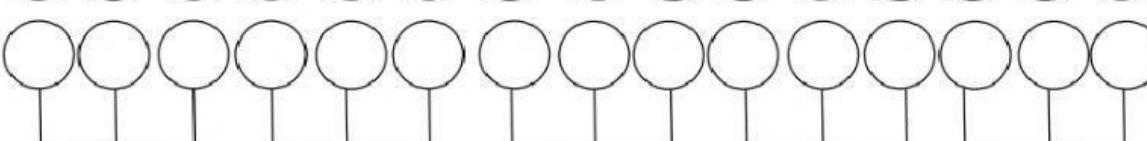
DNA



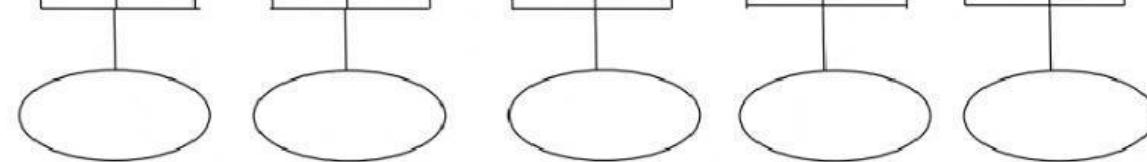
mRNA



tRNA

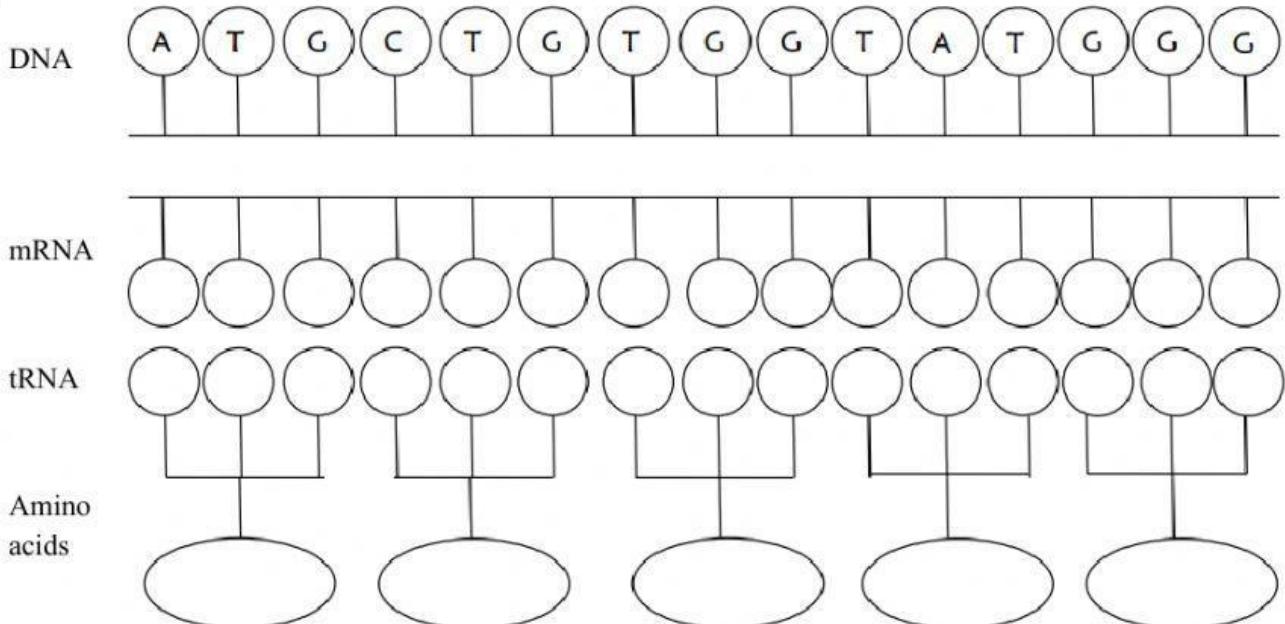


Amino acids



5. DNA is located in the (nucleus/cytoplasm).
6. (mRNA/rRNA) is used to carry the genetic code from DNA to the ribosomes.
7. (tRNA/rRNA) makes up the ribosome.
8. (DNA/RNA) uses uracil instead of thymine.
9. (RNA/amino acids) make up a protein.

10.



11. Transcription takes place in the (nucleus/cytoplasm).
12. tRNA is used in (translation/transcription).
13. tRNA uses (anticodons/codons) to match to the mRNA.
14. Proteins are made at the (nucleus/ribosome).
15. (tRNA/mRNA attaches the amino acids into a chain.
16. tRNA is found in the (nucleus/cytoplasm).
17. (Translation/Transcription) converts mRNA into a protein.
18. Translation takes place in the (cytoplasm/nucleus).
19. (DNA/RNA) can leave the nucleus.

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