

72

10/10



Name _____

Row: _____

Date: _____ Period: _____

Protein Synthesis Worksheet

Directions:

- 1st Fill in the complimentary DNA strand using DNA base pairing rules.
- 2nd Fill in the correct mRNA bases by transcribing the ~~top~~ DNA code.
- 3rd Translate the mRNA codons and find the correct amino acid using the Codon Table.
- 4th Write in the amino acid in the large circle.
- 5th Circle the correct answer to each question.

1.

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

DNA

2.

U	A	C	C	A	U	C	G	A	U	U	G	G	A	A
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mRNA

3.

Tyr	his	Arg	Leu	Gly
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Amino Acids

4. **Circle One:** mRNA is synthesized in translation or transcription.

5. **Circle One:** mRNA has codons or anti-codons.

6. **Circle One:** mRNA is synthesized in the ribosome or nucleus.

7.

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

DNA

8.

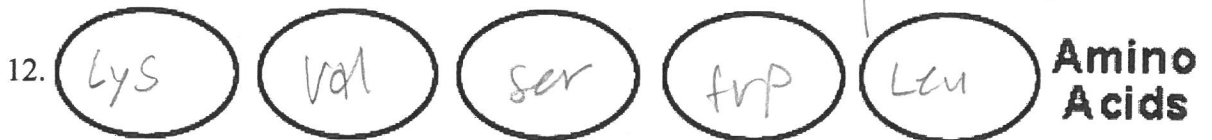
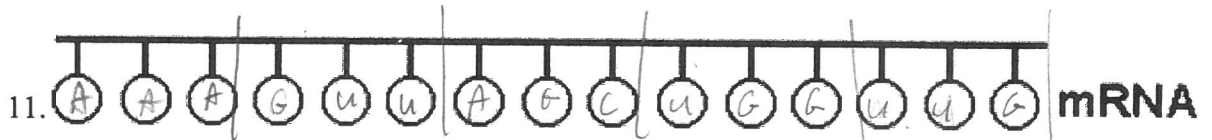
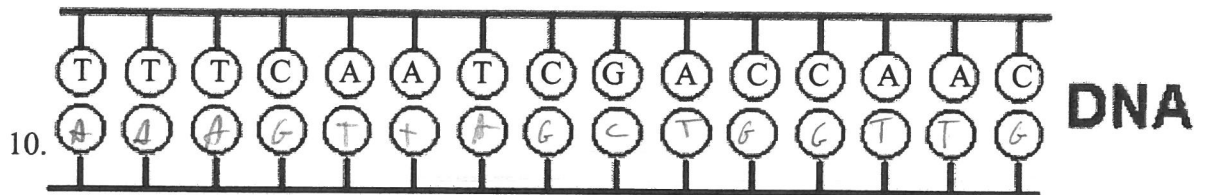
G	U	C	C	U	U	A	A	C	G	A	G	C	U	A
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mRNA

9.

Val	Leu	Asn	Glu	Leu
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Amino Acids



13. Circle One: 1 or 3 codons equal one amino acid.
14. Circle One: tRNA brings amino acids to the nucleus or ribosome.
15. Circle One: A polypeptide is a sequence of proteins or amino acids.
16. Circle One: tRNA has codons or anti-codons.
17. Circle One: tRNA transfers amino acids during translation or transcription.
18. Circle One: Ribosomes are the site where translation or transcription takes place.
19. Circle One: 1 or 3 nitrogen bases equal one amino acid.
20. Circle One: There are 20 or 3 different amino acids.
21. Circle One: A hydrogen or peptide bond binds amino acids together.

