

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 bottom DNA code.
- 3rd Translate the mRNA codons and find the correct amino acid using the Codon Table
- 4th Write in the amino acid and the correct anti-codon the tRNA molecule.
- 5th The answer to the questions about protein synthesis below the amino acids.

Transcription

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.

A	U	G	G	U	A	G	C	U	A	A	C	C	U	U
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 mRNA ★

Translation

3.

U	A	C	C	A	U	C	G	A	U	U	G	G	A	A
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 tRNA *Anti codons*

4.

met	Val	Ala	Asp	Leu
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 Amino Acids

5. mRNA is synthesized in translation or transcription? (made)
6. mRNA has codons or anti-codons?

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.

C	A	G	G	A	A	U	U	G	C	U	C	G	A	U
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 mRNA ★

9.

G	U	C	C	U	U	A	A	C	G	A	G	C	U	A
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 tRNA

10.

Glu	GluAcid	Leu	Leu	AspAcid
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 Amino Acids

