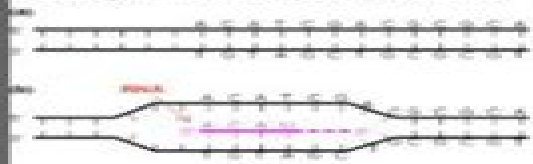


# PROTEIN SYNTHESIS WORKSHEETS

## Protein Synthesis: Transcription and Translation



Messenger RNA (mRNA) is made by matching complementary nucleotides to their partners. Practice determining the mRNA sequence from the original DNA sequence.

Hint: When you would have put a T, put a U, vice versa.

DNA	A	T	G	T	T	C	A	G	A
mRNA									

DNA	G	C	A	T	A	G	T	T	A
mRNA									

After it is created, the mRNA will leave the nucleus and travel to a ribosome.

Inside the ribosome the mRNA is matched in 3 letter segments with complementary Transfer RNA (tRNA). These three letter segments are called **codons**.

Each codon codes for a specific amino acid, which will be bonded to the tRNA, and added to the growing chain as it is matched to the complementary mRNA codon.



Example:

As you can see in the diagram to the left, to begin the process of protein synthesis, the DNA must first be opened and an mRNA molecule must be made.

mRNA is different from DNA in a couple ways. It's made of the sugar ribose rather than deoxyribose, it uses uracil instead of thymine, and most importantly, it can leave the nucleus.

## Protein Synthesis: Transcription and Translation

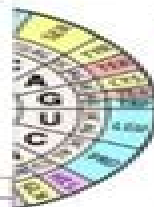
Practice matching mRNA with the complementary tRNA strand. Again, remember that any where you would have had a T, you will again have a U.

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

In order to determine which amino acid will be added to the growing peptide chain, we look at the codon, or three letter code, in the mRNA, not the DNA. Consider the mRNA, as just the vehicle which transports the amino acid to its place. The mRNA is the keeper of the secret message. Use the table by matching the codon starting from the center and following the letters.

Example:

mRNA Codon	Amino Acid
GAU	
ACG	
GAU	
UAC	
CAG	
CCC	
ACG	
GGC	



Finally, you should be able to transcribe and translate a molecule of DNA from start to finish.

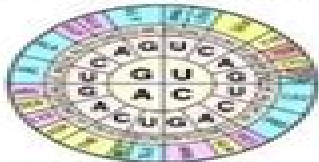
Helpful hints to remember:

- Only DNA has thymine (T), from there, all T's should be replaced with U's (uracil)
- The amino acid is determined using the codon in the mRNA, not the tRNA. Make sure you're looking at the right one!
- You can't determine amino acids without the help of a decoder like the one on the previous page. Play with it!

DNA	G	T	A	T	A	C	G	A	T	C	G	A	A	C
mRNA														
tRNA														

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

## Protein Synthesis Practice



DNA	ATG	GAC	CAA	TGG	GAT	TAC	CCC	GAA	TGT	CAT
mRNA										
tRNA										
Amino Acid										

DNA	ATG	GAC	CAA	TGG	GAT	TAC	CCC	GAA	TGT	CAT
mRNA	UAC	UAC	UAC	UAC	UAC	UAC	UAC	UAC	UAC	UAC
tRNA										
Amino Acid										

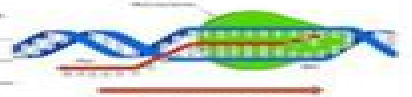
  

DNA	ATG	GAC	CAA	TGG	GAT	TAC	CCC	GAA	TGT	CAT
mRNA	UAC	UAC	UAC	UAC	UAC	UAC	UAC	UAC	UAC	UAC
tRNA										
Amino Acid										

Practice determining which amino acid will be added based on each codon.

mRNA Codon	Amino Acid
AUG	
GAU	
UAC	
CAG	
UAA	
GAC	
UAG	
UAA	
CCC	
CAG	
AAC	

mRNA Codon	Amino Acid
AUG	
GAU	
UAC	
CAG	
UAA	
GAC	
UAG	
UAA	
CCC	
CAG	
AAC	



Describe the process of translation.



LANEY LEE

# Simulating Protein Synthesis Answer Key

**N. E. Tolbert**



## **Simulating Protein Synthesis Answer Key:**

**Modeling and Simulation**, 1979      **Teaching to Learn** Kenneth George Tobin, 2006 A recurrent trope in education is the gap that exists between theory taught at the university and praxis what teachers do in classrooms How might one bridge this inevitable gap if new teachers are asked to learn to talk about teaching rather than to teach In response to this challenging question the two authors of this book have developed coteaching and cogenerative dialoguing two forms of praxis that allow very different stakeholders to teach and subsequently to reflect together about their teaching The authors have developed these forms of praxis not by theorizing and then implementing them but by working at the elbow of new and experienced teachers students supervisors and department heads Coteaching which occurs when two or more teachers teach together supports learning to teach while improving student achievement Cogenerative dialogues are conversations among all those who have been present in a lesson they ensure that what was learned while coteaching is beneficial for all coteachers and learners Tobin and Roth describe the many ways coteaching and cogenerative dialogues are used to improve learning environments dramatically improving teaching and learning across cultural borders defined by race ethnicity gender and language Teaching to Learn is written for science educators and teacher educators along the professional continuum new and practicing teachers graduate students professors researchers curriculum developers evaluation consultants science supervisors school administrators and policy makers Thick ethnographic descriptions and specific suggestions provide readers access to resources to get started and continue their journeys along a variety of professional trajectories      **Theory and Simulation in Physics for Materials Applications** Elena V. Levchenko, Yannick J. Dappe, Guido Ori, 2020-02-14 This book provides a unique and comprehensive overview of the latest advances challenges and accomplishments in the rapidly growing field of theoretical and computational materials science Today an increasing number of industrial communities rely more and more on advanced atomic scale methods to obtain reliable predictions of materials properties complement qualitative experimental analyses and circumvent experimental difficulties The book examines some of the latest and most advanced simulation techniques currently available as well as up to date theoretical approaches adopted by a selected panel of twelve international research teams It covers a wide range of novel and advanced materials exploring their structural elastic optical mass and electronic transport properties The cutting edge techniques presented appeal to physicists applied mathematicians and engineers interested in advanced simulation methods in materials science The book can also be used as additional literature for undergraduate and postgraduate students with majors in physics chemistry applied mathematics and engineering      **Biological Science, an Ecological Approach** Biological Sciences Curriculum Study, 1992 A collection of copy masters designed to supplement and extend the test material in a variety of ways Each item is keyed to the most closely related chapter      **The Plant Cell** N. E. Tolbert, 2013-09-24 The Biochemistry of Plants A Comprehensive Treatise Volume I The Plant Cell serves as an introduction to the various parts of the cell and to the basic biochemistry carried out in the

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Kemp,2025-01-20 *A First Course in Systems Biology Third Edition* is an introduction to the growing field of systems biology for advanced undergraduates and graduate students Its focus is the design and analysis of computational models and their applications to diverse biomedical phenomena from simple networks and kinetics to complex pathway systems signal transduction personalized medicine and interacting populations The book begins with the fundamentals of computational modeling then reviews features of the molecular inventories that bring biological systems to life and ends with case studies that reflect some of the frontiers in systems biology In this way the First Course provides the reader with a comprehensive background and with access to methods for executing standard tasks of biomedical systems analysis exposure to the modern literature and a foundation for launching into specialized projects that address biomedical questions with theoretical and computational means This third edition has been thoroughly updated It provides an introduction to agent based and multiscale modeling a deeper account of biological design principles and the optimization of metabolic flux distributions This edition also discusses novel topics of synthetic biology personalized medicine and virtual clinical trials that are just emerging on the horizon of this field      Science Instruction in the Middle and Secondary Schools Alfred T. Collette,1986

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