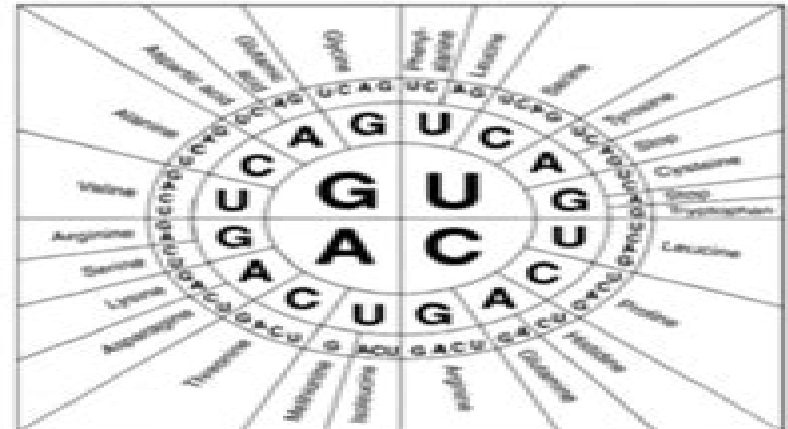


## Review and Practice: Protein Synthesis

### Part 1. Practicing translation

- Which amino acids do the following mRNA sequences code for?  
 G G C  
 U A C A C G  
 C A G  
 U A U A C G  
 U A G  
 U A G A C G
- Which amino acids do the following DNA sequences code for?  
 T A C  
 A A T  
 T C A  
 G G C T A C
- What sequence of mRNA could code for the following amino acids? (Give one possibility)  
 Cysteine  
 Tyrosine  
 Stop
- What sequence of DNA could code for the following amino acids? (Give one possibility)  
 Arginine  
 Tryptophan  
 Stop



### Part 2. How DNA controls the workings of the cell

Below are two partial sequences of DNA bases. Sequence 1 is from a human, and sequence 2 is from a cow. In both humans and cows, the sequence contains the gene to make the protein insulin. Insulin is necessary for the uptake of sugar from the blood. Without insulin, a person cannot digest sugars the same way others can, and they have a disease called diabetes.

Using the DNA sequence, make a complimentary mRNA strand for both the human and the cow. Write the mRNA directly below the DNA strand (remember to substitute Us for Ts in mRNA). Use a codon chart to determine what amino acids are assembled to make the insulin protein in both the cow and the human. Write your amino acid chain directly below the RNA sequence.

Table 1: Human insulin protein sequence

<b>DNA Sequence</b>	CCATAGCACGTTACAACGTGAAGGTAA
<b>mRNA</b>	
<b>Amino Acids</b>	

Table 2: Cow insulin protein sequence

<b>DNA Sequence</b>	CCGTAGCATGTTACAACGCGAAGGCAC
<b>mRNA</b>	
<b>Amino Acids</b>	

# Protein Synthesis Practice Worksheet Answer Key

**M Woodhall**



## **Protein Synthesis Practice Worksheet Answer Key:**

## Reviewing **Protein Synthesis Practice Worksheet Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Protein Synthesis Practice Worksheet Answer Key**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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