

I'm human



## **Protein synthesis and codons practice worksheet answers biology corner**

A new exercise is being created for Chapter 14 of the Bee book, focusing on RNA and Protein Synthesis. This exercise covers transcription, the process where DNA template creates a complementary RNA molecule. Messenger RNA then travels to the cytoplasm, where it brings the code to ribosomes for protein synthesis. The latter process involves translating genetic info from mRNA into specific amino acid sequences, forming proteins in the cytoplasm with help from transfer RNA. This exercise has students match vocabulary related to protein synthesis and also touches on different types of mutations covered in section 4. Another resource includes a worksheet where students determine amino acids based on DNA transcription and label structures involved in translation. The worksheet's second page explains the steps of protein synthesis through an image, which students must summarize. This resource aligns with Chapter 14 and covers the concepts of the central dogma, including how DNA is converted to RNA and then used by ribosomes to build proteins from amino acids. Students also practice with a worksheet on the genetics of sickle cell disease, focusing on the relationship between protein functions and mutations that can lead to nonfunctional hemoglobin due to single base changes. Given text [here](#)