- 1. Explore the process of protein synthesis in cells. Discuss the role of DNA, RNA, and ribosomes in the synthesis of proteins.
- 2. Examine the concept of homeostasis in living organisms. Provide examples of physiological processes that contribute to maintaining internal balance.
- 3. Compare and contrast plant and animal cells. Highlight the unique features of each cell type and their contributions to the respective organisms.
- 4. Investigate the impact of genetic mutations on the phenotype of organisms. Discuss the types of mutations and their consequences.
- 5. Discuss the principles of ecology and the levels of ecological organization. How do ecosystems function, and what are the factors influencing population dynamics?