

1. Explore the concept of homeostasis in living organisms. Provide examples of how different organ systems work together to maintain internal balance.
2. Analyze the process of evolution by natural selection. Discuss the evidence supporting the theory of evolution and its implications for the diversity of life.
3. Compare and contrast prokaryotic and eukaryotic cells. Highlight the structural and functional differences between these two fundamental cell types.
4. Discuss the principles of ecology, emphasizing the levels of organization within ecosystems. Explore the interdependence of living organisms and their environments.
5. Examine the role of hormones in the regulation of physiological processes. Provide examples of hormones and their effects on target cells and organs.