

1. How the structure of a protein is related to its function
2. The structure and function of carbohydrates
3. The process of osmosis and its importance to living organisms
4. How bacteria affect human lives
5. The movement of substances within living organisms
6. How the structure of the cell is related to its function
7. The different ways in which organisms use ATP/energy transfer within living organisms
8. Why offspring produced by the same parents are different in appearance/the way in which species differ from each other
9. The ways in which different species of organisms differ from each other/diversity in living organisms
10. Cycles and Biology
11. Negative feedback within living organisms
12. DNA and information transmission
13. The structures and functions of polymers in biology
14. How CO₂ affects organisms and ecosystems
15. Enzymes and their roles in the function of cells, tissues and organs
16. Energy transfer within living organisms
17. Receptors and their roles in co-ordinated responses in the body
18. Benefits and drawbacks of stem cells
19. Benefits and drawbacks of gene cloning
20. How homeostasis conditions are maintained in the body
21. Co-ordination between neurones and muscles in humans
22. The importance of respiration in living organisms
23. Factors affecting human populations
24. Photosynthesis and energy transfer in an ecosystem
25. How different pathways are used for metabolic reactions in the cell
26. Structure of plant cells and adaptation's to extreme environments
27. How animals maintain their body temperature
28. Pathways involved in maintaining homeostatic conditions during intense physical activity