

Biology: Module 1: DNA Structure and Function

Key Terms: double helix, nitrogenous bases, adenine, guanine, cytosine, thymine, hydrogen bonds, phosphate, deoxyribonucleic acid, sugar, complementary base pairing, semi-conservative replication, helicase, DNA polymerase

Write a brief history of the discovery of DNA.

What is the chemical and physical structure of DNA? (Include notes and a diagram.)

How is DNA replicated? (Write out the detailed steps, with the enzymes involved, and include a simplified diagram.)

Why is DNA replication called semi-conservative replication?

One strand of DNA has the following sequence of bases:

GATTACAACATAGA

Write the order of the bases on the second strand that is wound around this one.

