

DNA Structure

- DNA Replication Is Fundamental for All Life
- The Basic Structure of DNA
- Chemical Bonds in DNA
- Base Pair Bond Strength
- DNA Sequences
- Proteins Interact with DNA
- DNA vs. RNA
- Check Your Understanding
- Summary of Part 1

DNA Replication

- Replicating DNA: A Very Tall Order
- How Do Cells Replicate DNA?
- Step 1: Initiation
- Step 2: Making Primers
- Step 3: Extension
- Help the Cell Replicate DNA
- Step 4: Connecting DNA Fragments
- Errors Occur in DNA Replication
- Interrupting DNA Replication to Fight Cancer
- Check Your Understanding
- Summary of Part 2

Polymerase Chain Reaction (PCR)

- Replicating DNA Outside of a Cell
- An Overview of PCR
- Designing Primers for PCR
- Temperature is Important in PCR
- What Can We Learn from Amplified DNA?
- Check Your Understanding
- Summary of Part 3

Quiz Questions

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