

Unit 7: DNA & Biotechnology

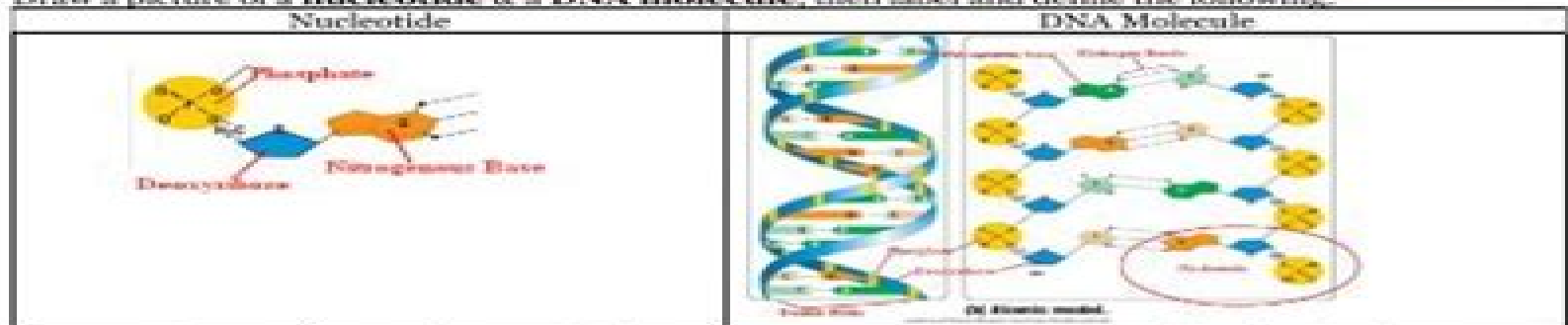
Essential Skills

- 7-1. Be able to explain the structure of DNA, including the following terms: **Nucleotide**, **Double Helix**, **complementary bases**. (CCS: 3a-3c; ESLS: Academic Literacy)
- 7-2. Be able to explain the difference between **Transcription** and **Translation** in terms of location in the cell, why they occur, and the **nucleic acids** (DNA, mRNA, rRNA, tRNA) involved. (CCS: 3d, 4a; ESLS: Academic Literacy, Complex Thinking)
- 7-3. Be able to use the **Genetic Code** to identify **codons**, **anti-codons** and **amino acids** from a DNA sequence. (CCS: 4a-e; ESLS: Academic Literacy, Complex Thinking)
- 7-4. Know how **genetic engineering** can be used to alter cells by incorporating **exogenous DNA** into the cells. (CCS: 5a-e; ESLS: Academic Literacy, Complex Thinking, Global Responsibility)

Vocabulary – You should be able to define and use the words in bold. (see website for a complete list)

Study Guide

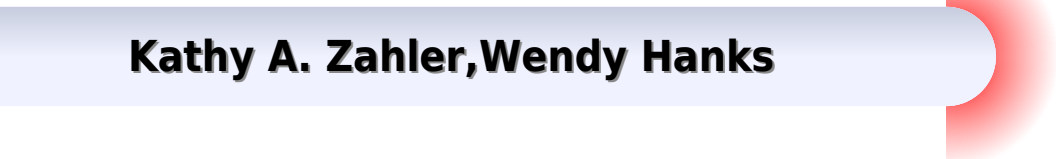
1. Describe the scientific contributions of the following people:
 - a. Franklin – **created a photograph of a DNA molecule using x-ray diffraction**
 - b. Watson & Crick – **Discovered the structure of DNA and built a model of a DNA molecule**
2. Draw a picture of a **nucleotide** & a **DNA molecule**, then label and define the following:



- | | |
|--|--|
| <ol style="list-style-type: none"> a. Deoxyribose – the sugar in the DNA backbone b. Phosphate – a molecule that makes up part of the DNA backbone c. Nitrogenous base – for nitrogen containing molecules that make up the middle of a DNA molecule (Guanine, Cytosine, Adenine, & Thymine) d. Nucleotide – the monomer of a DNA molecule (made up of a | <ol style="list-style-type: none"> e. sugar, phosphate & nitrogenous base) e. Double Helix – the overall shape of DNA molecules (a twisted ladder) f. Hydrogen Bonds – weak chemical bonds between nitrogenous bases on opposite strands of a DNA molecule (G-C & A-T) |
|--|--|
3. What are the **3'** and **5'** ends of DNA. What does the term "**antiparallel**" mean?
 The 3' end of the DNA molecule is the sugar end, the 5' end is the phosphate end. The term "anti-parallel" is used to describe DNA molecules because one strand is upside-down compared to the other. (One strand is 3' → 5' and the other is 5' → 3'.)
 4. Explain the process of **DNA Replication**. Why is this process called "**Semiconservative**"?
 There are 3 steps to DNA Replication:
 1. **Unzip** – The two strands of a DNA molecule are separated when an enzyme, Helicase, breaks the H-bonds between the base pairs.
 2. **Assemble** – New strands of DNA is built on the original strands by the enzyme DNA polymerase, which adds a single complementary nucleotide at a time.

Nucleic Acids Packet Answer Key

Kathy A. Zahler, Wendy Hanks



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Biochemistry in the High School Classroom Van Albrecht McWilliams, 1990 *Nucleic Acids Abstracts*, 1996

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