

## DNA Test – Study Guide [KEY](#)

1. Explain the research of the following scientists:

- a. Griffith: [worked with pneumonia bacteria and mice to track how infection occurs. Results: Harmless bacteria that were exposed to heat-killed harmful bacteria were transformed to harmful bacteria.](#)
- b. Avery: [Used enzymes to break down pneumonia bacteria. Results: DNA is the transforming factor that causes infection.](#)
- c. Hershey and Chase: [Worked with bacteriophages \(viruses that infect bacteria only\). Results: DNA from virus is what causes viral infections.](#)
- d. Franklin and Wilkins: [Used X-Ray diffraction to take photos of DNA.](#)
- e. Watson and Crick: [Credited with discovering DNA double helix structure since they could analyze X-ray diffraction photos.](#)
- f. Chargaff: [Discovered rules of base pairing. A=T, G=C](#)

2. What is the role of DNA?

[The role of DNA is to store and transfer genetic information like a library.](#)

3. What is a nucleotide and what are the three parts to it?

[A nucleotide is a monomer of a nucleic acid \(DNA and RNA\). The three parts of a nucleotide are the 5-carbon sugar, phosphate group, and nitrogenous base.](#)

4. What two nitrogenous bases are purines? Pyrimidines?

[Purines = Adenine and Guanine](#)

[Pyrimidines = Thymine and Cytosine](#)

5. List the steps to DNA replication.

- [1. Helicase breaks the hydrogen bonds between base pairs and "unzips" DNA.](#)
- [2. DNA polymerase adds new DNA nucleotides to DNA template strands.](#)
- [3. DNA polymerase releases once it reaches the end of the DNA strands. Create two semi-conservative DNA strands.](#)

6. What do the following enzymes do during DNA replication?

- a. Helicase: [Breaks hydrogen bonds between nitrogenous base pairs, "unzips" DNA strands.](#)
- b. DNA polymerase: [Adds new DNA nucleotides to template strands of DNA.](#)

# Dna Test Study Guide Answers

**D Keegan**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

## **Dna Test Study Guide Answers:**

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