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INTRODUCTION

This activity explores the research shown in the short film [The Double Helix](#), which tells the story of how DNA's structure was discovered.

PROCEDURE

Use the information in the film to answer the following questions in the spaces provided. You may want to use the film's transcript as a reference.

1. In the 1950s, many scientists thought that proteins, not DNA, carried genetic information.
 - a. Why did proteins seem better suited for storing genetic information?

Because there are many different types of proteins for each function of a cell.

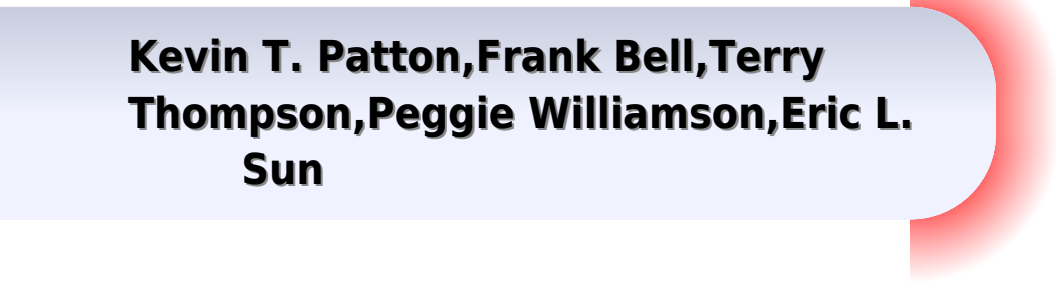
- b. Oswald Avery's experiments with bacteria led him and other scientists to propose the following claim: **DNA, not proteins, carries genetic information.** Complete the table below to explain how Avery's experiments supported this claim.

Claim: DNA, not proteins, carries genetic information.
Evidence: (List three pieces of evidence for the claim from Avery's experiments.)
1. Avery isolated a substance that transferred a specific trait from one bacterium to another 2. Protein digesting enzymes didn't destroy the transforming principle 3. DNA digesting enzymes did destroy the transforming principle
Reasoning: (In full sentences, explain how each piece of evidence supports the claim.)
The evidence supports the claim that DNA carries genetic information because the substance that Avery isolated shows that it transferred one trait to another which led to the conclusion that DNA carries genetic information. The DNA digesting enzyme destroyed the transforming principle but the protein digesting enzyme didn't. This also shows that proteins don't carry genetic information.

2. What are the chemical components of a DNA nucleotide? _____
 - a. a phosphate, a sugar, and a nitrogenous base
 - b. a phosphate, a nitrogenous base, and an amino acid
 - c. a nitrogenous base, a sugar, and an amino acid
 - d. a nitrogenous base, ATP, and a sugar
3. The two strands of a DNA molecule are held together by hydrogen bonds between the: _____
 - a. phosphate groups on each strand
 - b. nitrogenous bases on each strand
 - c. bases and the phosphate-sugar backbone
 - d. carbon atoms in the sugars

Human Body Systems Pltw Exam Study Guide

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