

Skills Worksheet

13.1 Active Reading

Section: The Structure of DNA

Read the passage below. Then answer the questions that follow.

In 1928, bacteriologist Frederick Griffith worked with two strains of *Streptococcus pneumoniae*. The first strain was enclosed in a capsule made of polysaccharides. The capsule helped make the microorganism able to cause disease. The second strain of *S. pneumoniae* lacked the polysaccharide capsule and did not cause disease.

Griffith knew that mice infected with S bacteria grew sick and died, while mice infected with R bacteria were not harmed. To determine if the capsule on the S bacteria was causing the mice to die, Griffith injected the mice with dead S bacteria. The mice remained healthy. Griffith then prepared weakened S bacteria by raising their temperature until the bacteria were "heat-killed," meaning they were dead but maintained the capsule.

When Griffith injected the mice with the heat-killed S bacteria, the mice still lived. He then mixed the harmless live R bacteria with the harmless heat-killed S bacteria. Mice injected with this mixture died. Somehow, the harmless R bacteria underwent a change and became live, pneumonia-causing S bacteria. This phenomenon is now called *transformation*, a change in genotype caused when bacterial cells take up foreign genetic material.

SKILL: READING EFFECTIVELY

Read each question, and write your answer in the space provided.

1. What does the term *strain* refer to in the first sentence?

2. What effect might the polysaccharide capsule have on a bacterium contained within the capsule?

3. What does the term *transformation* mean?

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Chapter Resource 13 Theory/Evolution Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

Chapter Resource 3 Cell Structure Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

Modern Biology James Howard Otto,1985 Chapter Resource 43 Reproduction/Developmental Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **Chapter Resource 17 Biological Communication Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 *Molecular Biology of the Gene* James D. Watson,1976 The mendelian view of the world Cells obey the laws of chemistry A chemist's look at the bacterial cell The importance of weak chemical interactions coupled reactions and group transfers The concept of template surfaces The arrangement of genes on chromosomes Gene structure and function The replication of DNA The transcription of RNA UPON DNA templates Involvement of RNA in protein synthesis The genetic code Regulation of protein synthesis and function The replication of viruses The essence of being eucaryotic Embryology at the molecular level The control of cell proliferation The problem of antibody synthesis The viral origins of cancer

Protists Biology 2004 Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **Pamphlets on Biology** ,1918 **Teacher's Guide to the Modern Biology Program** James Howard Otto,Albert Towle,Elizabeth H. Crider,1965 **Cr 9 DNA** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **Modern Biology** Towle,Albert Towle,1991 **Biology, a Human Approach** Irwin W. Sherman,Vilia G. Sherman,1983 This popular college textbook presents the substance of modern biology with special focus on human biology and contemporary topics

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