

CHAPTER 10: ACTIVE READING WORKSHEET

DNA, RNA, AND PROTEIN SYNTHESIS**Section 10-1: Discovery of DNA**

Read the passage below, which covers topics from your textbook. Answer the questions that follow.

In the early 1940s, Oswald Avery and his colleagues set out to test whether the transforming agent in Griffith's experiment was protein, RNA, or DNA. The scientists used enzymes to separately destroy each of the three molecules in heat-killed *S* cells. They used a protease enzyme to destroy protein in heat-killed cells in the first experiment, an enzyme called RNase to destroy RNA in the second experiment, and an enzyme called DNase to destroy DNA in the third experiment. Then they separately mixed the three experimental fractions of heat-killed *S* cells with live *R* cells and injected mice with the mixtures. The cells missing protein and RNA were able to transform *R* cells into *S* cells and kill the mice. However, cells missing DNA did not transform *R* cells into *S* cells, and the mice survived.

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

SKILL: Mapping Cause-and-Effect Relationships

In a cause-and-effect relationship, one event, or cause, triggers a second event, or effect, to occur.

1. What enzyme destroys protein?

2. What enzyme destroys DNA?

3. What experimental results of heat-killed *S* cells and live *R* cells resulted in the mice surviving?

Circle the letter of the word or phrase that best completes the statement.

4. In Avery's experiment, *R* cells were transformed into

a. protein.

c. DNA.

b. *S* cells.

d. RNA.

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J Ma



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