#### Chapter 12 DNA and RNA

## Section 12-1 DNA (pages 287-294)

This section tells about the experiments that helped scientists discover the relationship between genes and DNA. It also describes the chemical structure of the DNA molecule.

#### Griffith and Transformation (pages 287-289)

- What did Frederick Griffith want to learn about bacteria? He wanted to learn how certain types of bacteria produce pneumonia.
- The strain of bacteria that caused pneumonia grew into \_\_\_\_\_\_ smooth \_\_\_\_\_ colonies on culture plates; harmless bacteria produced colonies with \_\_\_\_\_ edges.
- 3. Circle the letter of each sentence that is true about Griffith's experiment.
  - (a.) Mice injected with bacteria from smooth colonies died.
  - b. Mice injected with bacteria from rough colonies died.
  - c. Mice injected with heat-killed bacteria from smooth colonies died.
  - Mice injected with a mixture of bacteria from heat-killed smooth colonies and live rough colonies died.
- 4. What result from Griffith's experiment suggested that the cause of pneumonia was not a chemical poison released by the disease-causing bacteria? The mice survived after being injected with heat-killed disease-causing bacteria.
- What is transformation? It is the process by which one strain of bacteria changes into another.
- 6. What hypothesis did Griffith form from the results of his experiments? Some factor, which might be a gene, was transferred from the heat-killed bacteria cells into the live cells.

#### Avery and DNA (page 289)

- Is the following sentence true or false? Avery and his colleagues thought that the molecule required in transformation might also be the molecule of the gene.
- Briefly describe how Avery and his group determined which molecule was most important for transformation?

   They treated the extract of heat-killed bacteria with enzymes that destroyed proteins, lipids, carbohydrates, and other molecules, including RNA and DNA.

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