OWPTER 13 DNA, RNA, and Proteins)

Replication of DNA

KEY IDEAS

As you read this section, keep these questions in mind:

- How does DNA replicate, or make a copy of itself?
- · What are the roles of proteins in DNA replication?
- How is DNA replication different in prokaryotes and eukaryotes?

READING TOOLBOX

Summarize As you read this section, underline the main ideas. When you finish reading, write an outline of the section using the underlined ideas.

Critical Thinking

 Apply Concepts A particular DNA molecule contains 10,000 base pairs.
How many base pairs will be in each of the two new strands formed during DNA replication?

LOOKING CLOSER

 Identify Label the two replication forks on the figure.

How Is DNA Copied?

When cells divide, each new cell contains an exact copy of the DNA in the original cell. That happens because DNA consists of two strands of complementary base pairs. If the two strands are separated, each strand serves as a pattern to make a new complementary strand. So, a single DNA molecule can be used as a template, or pattern, to produce two identical DNA molecules. This process of **DNA replication** involves three steps.

First, the DNA double helix unwinds and forms the Y shapes shown below. These Y shapes are called *replication forks*. At the replication forks, the complementary DNA strands separate from each other.



Y-shaped replication forks form where two strands of DNA separate.

Next, new nucleotides are added at each fork. The nucleotides form new base pairs according to the base-pairing rules. For example, adenine on an original strand will pair with thymine on a new strand. In this way, the original two strands act as templates for two new strands. Two new double helixes form as more nucleotides are added.

Finally, the two new DNA molecules split apart. Each molecule consists of one strand of the original DNA and one new strand. The nucleotide sequences in both new DNA molecules are identical to each other and to the original DNA molecule.

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Kathleen Armour

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