

Chapter Guide

CHAPTER 12

Section 2: Replication of DNA

In your textbook, read about semiconservative replication.

Match the description in Column A with the term in Column B.

Column A

- | | |
|----------|--|
| <u>E</u> | 1. unwinds in multiple areas as DNA is replicated |
| <u>A</u> | 2. parental strands separate and serve as templates for new strands of DNA |
| <u>f</u> | 3. the DNA of prokaryotes |
| <u>c</u> | 4. keep the strands of DNA separate during replication |
| <u>d</u> | 5. elongates as DNA unwinds and is replicated continuously |
| <u>b</u> | 6. unwinds the double helix |

Column B

- | | |
|-----------|----------------------------------|
| A. | semiconservative replication |
| B. | DNA helicase |
| C. | single-stranded binding proteins |
| D. | leading strand |
| E. | eukaryotic DNA |
| F. | circular DNA |

In your textbook, read about base pairing.

Label the diagram showing DNA replication. Use these choices:

DNA ligase

DNA polymerase

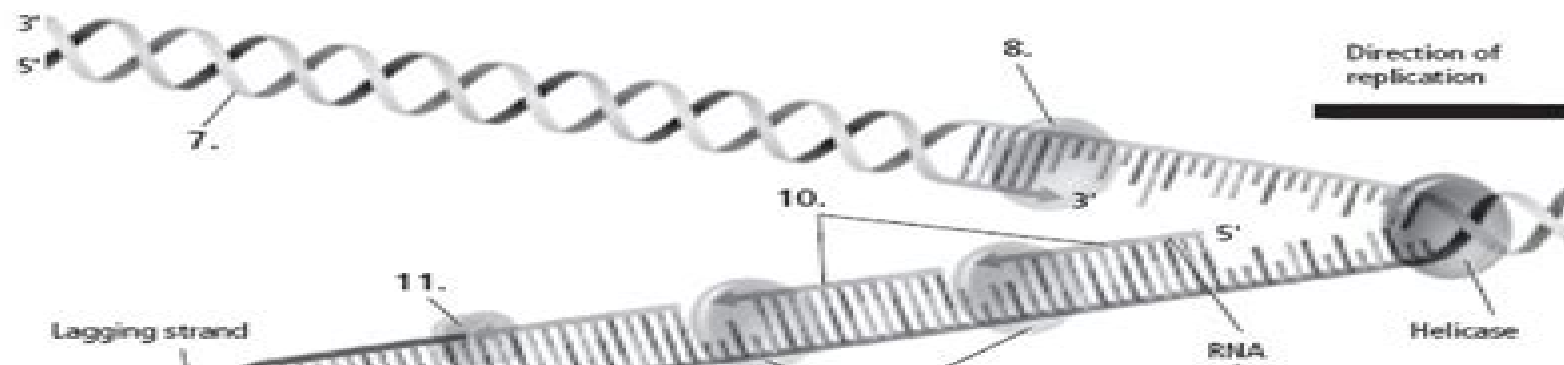
leading strand

Okazaki fragments

parental DNA

- | | |
|----|-----------------------|
| 7. | <u>leading strand</u> |
| 8. | <u>DNA polymerase</u> |
| 9. | _____ |

- | | |
|-----|--------------------------|
| 10. | <u>okazaki fragments</u> |
| 11. | <u>dna ligase</u> |
| 12. | _____ |



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Robert J. Brooker, Brooker Robert



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