

4. Replicate the given DNA strand.

Given strand of DNA:

G-C

A-T

T-A

C-G

T-A

G-C

Complimentary Strands:

Result:

5. What is the end result of DNA replication if you start with a single double helix strand of DNA?

E. How Replication Occurs

1. DNA replication is carried out by _____.

a. Describe the actions of enzymes that "unzip" DNA creating complimentary strands.

b. The main enzyme in DNA replication is

1. List the 2 functions of DNA polymerase.

Summary/Thinking Map

Create a flow map showing the steps of DNA replication using the following headings:

"unzip" DNA strand
create 2 identical DNA strands
create complimentary strands

create replication forks
DNA polymerase "proofreads"
DNA polymerase joins nucleotides (base pairing)

Key Vocabulary

Define the Key Vocabulary for this section. Be sure to number and underline your Key Vocabulary word.