DNA REPLICATION
Power Notes

General description: Replication is the process by which DNA is copied during the cell cycle

Process

1.

Enzymes unzip

the double helix in two directions at the same time

2. **Nucleotides pair**

with the exposed bases on the template strands

3. **DNA polymerase**

bonds the new nucleotides together

End Result

4. Two molecules of DNA identical to the original molecule result; Each molecule contains one original and one new strand this is called **semiconservative.**

Identify the Structures

Sugar-phosphate

1.

_____

backbone

_____

Nitrogen-containing

2. bases

_____

Nitrogen-containing

3. bases

_____

Newly synthesized

4. strand of DNA

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