

Name:

Date:

Period:

Molecular Genetics

DNA Replication

Answer the questions below to the best of your ability.

1. In what phase of the cell cycle does DNA replication occur?

2. In the table below, describe what happens during DNA replication.

Step	Enzymes Used	What is happening?
"Unwinding"		
"Base-pairing"		
"Joining"		

3. In eukaryotic cells, why are there multiple origins of replication?

4. What is a replication fork?

5. Explain the leading strand and lagging strand of DNA replication.

6. Explain why DNA replication is considered semi-conservative.
