Name:		Period:
<b>DNA Replication Practice</b> Directions: Below are the 3 steps in DNA replication. Follow the direction answer the questions below.		ections for each step and then
1.	-What is happening to the DNA molecule in the figure? (Explain the first step in DNA replication)	A T T A C G C G T A G C
2.	-What happens to the DNA molecule during the second step of DNA replication?	
3.	-What happens during the third step of DNA replication?	T A T A T

C G
C G
T A
G C
C G
A T

T A
G C
C G
A T

What	is DNA replication?
	your notes, book, and this assignment, place the steps of DNA replication in the correct order.  a. The enzyme DNA polymerase moves along the exposed strands and adds complementary nucleotides to each nucleotide in each existing strand.  b. The DNA double helix breaks or unzips down the middle between the base pairs.  c. A complementary strand is created for each of the two strands of the original double helix.  d. Two new identical DNA molecules have been produced.
7. (T	rue or False) The process of DNA replication results in a copy of the original DNA molecule.
3. (	rue or False) DNA does not have to break apart to be copied.
	rue or False) After DNA replication is complete, there are two new DNA molecules; one molecules both of the original strands and one molecule has two new strands of DNA.
10.W	here does DNA replication happen?
11.W	hen does DNA replication happen?
12.B	elow are DNA strands. Make the complementary DNA strand:
	Original Strand: ATGCAAATTGCTCACCGGGGATCAGCACCGG
Com	plementary Strand:
	Original Strand: A G G G G A T C A G C A C C G G A T T T C A T G A G C C C T A
Com	plementary Strand:
	Original Strand: A A G T A C G A T C G A T G C A C A T G C A T G G C T A C G C
	Oliginal Stiding, AAGTACGATCGATGCATGCATGCATGC

When a cell copies a DNA molecule:

- 1. DNA is unzipped. by helicase
- 2. The complementary bases are added to each template strand.by DNA polymerase
- 3. The 2 new strands are proofread for errors, by DNA polymerase and then DNA winds up.

