Biology	Honors	- Ch.	10
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DNA Replication Practice Worksheet

Concepts:

- \bullet DNA is composed of nucleotides and is shaped like a double helix, with strands running antiparallel
- Bases always form complementary base pairs (adenine with thymine and cytosine with guanine)
 Complementary base pairing enables DNA to replicate, or copy itself

 DNA replication involves three steps and each step uses a specific enzyme There is a leading strand and a lagging strand for each replication fork The lagging strand is made from Okazaki fragments 										
	_	-	g strand	of DNA	by placing	the lett	er of the	correct	nitroge	nous base
5'	C	C	A	\mathbf{G}	T	A	\mathbf{G}	Т	Т	3'
					arent stro template f					split for
PART 1. Why	_	NA need	d to repli	cate?						
2. How	/ do bas	e-pairin <u>c</u>	g rules m	ake DNA	replication	on possib	ole?			
with e	ach step	(HINT	: There o	are 4 mai	ess of DN n enzyme:	s, 2 of th	nem go w	ith the s	econd st	rep).
b										
c										
6. Wh	at are C)kazaki f	ragment	s? Why o	are they n	eeded?				