

Name: _____ Date: _____ Period: _____

DNA STRUCTURE+ REPLICATION QUIZ Review CP2

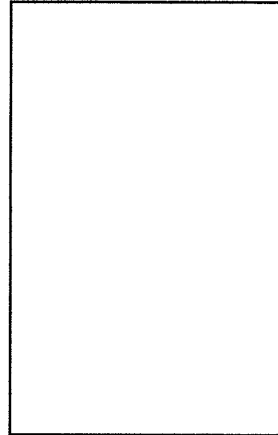
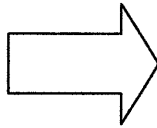
1. What are the three parts of a nucleotide?

A. _____

B. _____

C. _____

2. Draw a simple model of DNA in its 3-D form:



What is this shape called?

3. _____ is when DNA makes a copy of itself.

4. When does replication occur?

5. Why is DNA replication important?

6. What happens if DNA does not replicate exactly?

7. What do Chargaff's rules state?

8. Fill in the following chart using Chargaff's rules:

Organism	%A	%T	%G	%C
1	20	20	30	
2	18			32
3		15	40	
4	25			

8.5 what does Synthesis mean?

9. During replication, what would the opposite side of this DNA look like?

ATCCCGGTTACAC

10. *From the February 2011 MCAS retest:*

DNA is found in the cells of all organisms. The structure of DNA is directly linked to its function.

a. Describe the function of DNA in organisms.

b. Draw and label a simple model of DNA that includes the sugar/phosphate backbone and nitrogenous bases.

(** Make sure to label hydrogen bonds too)

c. Explain how the structure of DNA enables it to perform the function you described in part (a).