		Pd	Date:					
DNA Rep	lication & Cell Division R	eview						
Directions	: Complete each sentence.							
1.	Guanine,, in 1	thymine, and DNA.	are the four					
2.	In DNA, guanine always f	Forms hydrogen bonds w	vith					
3.	The process of genetic information, which	pro is passed on to a new o	duces a new copy of an organism's cell during mitosis.					
4.	The double coiled, "staircase" shape of DNA is called a							
5.	What type of bond does to bases?	the enzyme DNA Helica	<u> </u>					
6.	In a eukaryotic cell, where replicated?							
7.	Label the <b>nucleotides</b> (A molecule on the right:							
	=_=							
8.	Circle one entire nucleotic nucleotide?	le. What are the 3 parts o	of a					
9.	Label the enzyme, substra products below. Describe the enzyme has on the sub	the effect						

Pd		
1 4.		

## **DNA Replication & Cell Division Review**

10. Briefly describe the steps of DNA Replication

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_

11. Which enzyme is responsible for "unzipping" the DNA double helix?

12. Name the enzyme that builds DNA during replication:

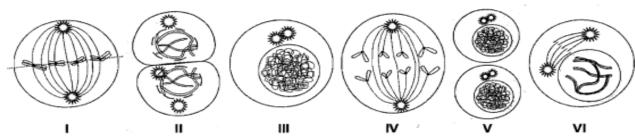
13. If the sequence of one single strand of DNA is 5' C-A-A-G-T-A-G-G-C-T 3', what is the sequence of the complementary strand?

14. What is the purpose of mitosis?

\_\_\_\_

15. What is created in mitosis?

16. What occurs in the S-phase? Where in the cell does this occur?



17. In the diagram above, what number depicts each phase?

a. Interphase \_\_\_\_

d. Anaphase \_\_\_\_

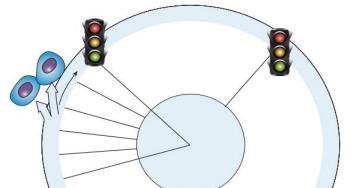
b. Prophase \_\_\_\_

e. Telophase \_\_\_\_\_

c. Metaphase \_\_\_\_

f. Cytokinesis \_\_\_

18. Fill in the sections of the Cell Cycle Wheel using the following: G1, S, G2, Prophase, Metaphase, Anaphase, Telophase, Cytokinesis.



19. What do the stop lights in the diagram represent?

Name:	Po	l	Date:
DNA Replication & Cell Division Review	ii.	20. What are cancer cells cancer cells form.	? Explain why