Name:	Per:

Chapter 10 Study Guide

	Chapter 10 Study Guide				
10.1 1.	L Cell Growth, Division, and Reproduction As the cell size increases what happens to the demands for information?				
2.	What determines the rate at which materials can get in and out of the cell?				
_					
3.	What determines the rate at which materials are used and produced by the cell?				
4.	What happens to the surface to volume ratio as the cell increases in size?				
5.	What do cells do to remedy the cell getting too big?				
6.	What is cell division?				
7.	When a cell divides what does it do to the volume of the cell and how does that effect the surface area to volume ratio?				
8.	What is asexual reproduction?				
9.	What is sexual reproduction?				
10 2	The Process of Cell Division				
-	What are chromosomes?				
11.	What is a plasmid?				
4.3	What had a second 2				
12.	What is chromatin?				
13.	What does chromatin wrap around?				
14.	What are nucleosomes?				
15.	What does a prokaryotic cell cycle consist of?				
16.	What are the four phases of a eukaryotic cell cycle?				
17.	What phases make up interphase?				
18.	What happens in interphase?				
19.	What phase happens during cell division?				
20.	What happens during the G1 phase?				
21.	What happens during the S phase?				
22.	What happens during the G2 phase?				
23.	What are the two parts of the M phase?				
24	What happens in mitosis?				
	That happens in mitosis:				

Name:		
25	·Γ. What have a six a stable said?	
25.	5. What happens in cytokinesis?	
26.	6. What are chromatids?	
27	7. What are continuous 2	
	7. What are centromeres?	
29.	9. What are spindles?	
30.	0. What happens in prophase?	
31.	1. What happens in metaphase?	
32.	2. What happens in anaphase?	
33.	3. What happens in telophase/cytokinesis?	
34.	4. Draw out the stages of mitosis.	
25	5. How is cytokinesis in plants and animals different?	
JJ.	5. How is cytokinesis in plants and animals different:	
	0.3 Regulating the Cell Cycle	
36.	6. What are cyclins?	
37.	7. What are internal regulators?	
38.	8. What are external regulators?	
39.	9. What are growth factors?	
40.	0. What is apoptosis?	
41.	1. What is cancer?	
42.	2. What is a tumor?	
43.	3. What are causes of cancer?	

Name:		Per:			
44.	What are treatments for cancer?				
10.4	10.4 Cell Differentiation				
45.	What is differentiation?				
46.	What does totipotent mean?				
47.	What is a blastocyst?				
48.	What are stem cells?				