

Name _____ Date _____ Per _____
Biology

Guided Reading Chapter 10 – Cell Growth and Division

10-1 Cell Growth

1. What two things occur as a cell increases in size?
2. What happens before a cell becomes too large?

10-2 Cell Division

3. Why must a cell copy its genetic information before cell division begins?
4. What happens in prokaryotic cell division?
5. What are the two stages of eukaryotic cell division?
6. In what structure is genetic information passed on in eukaryotes?
7. What is chromosome replication?
8. What is the cell cycle?
9. What are the four phases of the cell cycle?
10. What happens during G1 phase of Interphase?
11. What happens during the S phase of Interphase?
12. What happens during the G2 phase of Interphase?
13. What are the four phases of mitosis?
14. What happens during prophase of mitosis?
15. What are centrioles? What do centrioles do?
16. What is the spindle? What does the spindle do?
17. What happens during metaphase of mitosis?

18. What happens during anaphase of mitosis?
19. What happens during telophase of mitosis?
20. What happens in animals cells during cytokinesis?
21. What happens in plant cells during cytokinesis?

10-3 Regulating the Cell Cycle

22. What are cyclins?
23. What is the difference between internal and external regulators?
24. What is cancer?
25. What are tumors?

Use your textbook page 245 to draw and label the diagram from figure 10-4 below. Include the following labels on your drawing

Telophase
S phase
Cytokinesis
Metaphase
Anaphase

G1 phase
Prophase
G2 phase
Preparation for Mitosis
DNA replication

Cell Growth
Cell Division
Mitosis
M Phase