Honors Biology Test 8 Study Guide

1. Know the reasons why a cell may need to divide.
2. Understand the surface area to volume relationship of a cell and how it is related to cell division.
3. What is the difference between prokaryotic and eukaryotic cell division? (p. 345)
4. Know what happens during each phase of the cell cycle.
5. What is the purpose of mitosis? What kind of cells does mitosis create?
6. What are chromosomes?
7. What are sister chromatids?
8. What is the centromere of a chromosome?
9. Know the phases of mitosis and the steps that occur during each phase. Be able to identify the steps on a diagram.
10. What happens during cytokinesis?
11. What are the differences in cytokinesis between plant and animal cells? (p. 348 in your textbook)
12. What is cancer? What causes it?

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