

## **Biology Study Guide**

### **Chapter 5A – Genes, Chromosomes, and Cell Division**

1. Study any Quizlets made for chapter 5.
2. Be able to identify the stages of mitosis in a microscope.
3. Be able to match the stages in cell division with a short description.
4. Compare and contrast mitosis and meiosis.
5. Thoroughly explain the complete cell cycle; include pictures.
6. What are the nucleotide bases and which ones pair together?
7. What are the results of mitosis? Meiosis?
8. What are the stages of interphase?
9. What makes up a DNA molecule?
10. Know/Apply the following terms:
  - Individual characteristics
  - Genes
  - Human diploid chromosome number
  - Zygote
  - Cytokinesis
  - Species characteristics
  - Watson and Crick
  - Histone
  - Fertilization