**Cell Cycle**

**Study Guide: Mitosis and Meiosis**

* + Compare the cell cycle to another organisms life cycle
  + What are the 4 steps in the cell cycle?
    - What are the major events that happen in each of the 4 stages of the cell cycle?
    - Approximately how long does each step in the cell cycle take?
  + What step in the cell cycle is cell reproduction?
  + What is interphase?

**Mitosis**

* What is the purpose of mitosis?
* What are the 4 steps in mitosis?
  + What does IPMAT mean?
* What are the major events in each stage of mitosis?
  + Be able to recognize each stage by the major events)
* What are internal regulators?
  + What group of chemicals tell a cell when to divide?
  + What physical signals tell a cell when to divide?
* What are external regulators?

**Meiosis**

* What is a haploid cell?
  + Name two different kinds of haploid cells
* What is a diploid cell?
* What are gametes?
* When passing information from parent to offspring how many sets of genetic information are passed on?
  + Are they in singles or pairs?
* What are the major differences between mitosis and meiosis?
* How many times does a gamete undergo PMAT?
* Describe the major steps in meiosis.