**Cellular Division Study Guide**

* Know the stages of mitosis and meiosis and what happens in each.
* Be able to identify a drawing or picture of each stage of mitosis
* Terms: Diploid, haploid, somatic cell, gamete, centriole, centromere, chromosome, chromosome, chromatid, sister vs. homologous, crossing over, chiasmata, tetrad, cytokinesis, karyokinesis, karyotype, metaphase plate, spindle fibers,
* Differentiate between the G1, S, and G2 stages in interphase.
* Differences in cytokinesis in plant and animal cell mitosis.
* How do meiosis and fertilization, produce genetically different offspring.
* How do mitosis and meiosis fit into the life cycle of humans?
* Compare and contrast the processes of meiosis and mitosis by describing the processes in detail. Use properly labeled pictures when appropriate.