Biology
Mitosis / Meiosis
2012 – 2013
#2

I. Cell Cycle

A. Interphase
   1. G1
   2. S
   3. G2

B. Mitosis = division of the chromosomes

   1. Prophase

      - chromatin is converted into chromosomes

      - nucleus disappears

      - centrioles move to the poles of the cell

      - spindle fibers stretch across the cell

   2. Metaphase

      - chromosomes are lined up along the equator of the cell by spindle fibers

   3. Anaphase

      - chromatids separate and are pulled to opposite ends of the cell

   4. Telophase

      - nuclei reappear

      - spindle fibers disappear

      - chromosomes begin to relax into chromatin

C. Cytokinesis = division o the cytoplasm and the organelles

   1. Animal cells = cells form a "cleavage" furrow and pinch in the middle

   2. Plant cells = cells form a "cell plate" in the center of the cell
      (cell wall is too tough to pinch)

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B. Mitosis =

1. Prophase

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2. Metaphase

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3. Anaphase

-

4. Telophase

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C. Cytokinesis =

1. Animal cells =

2. Plant cells =