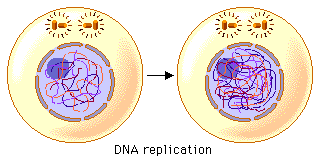
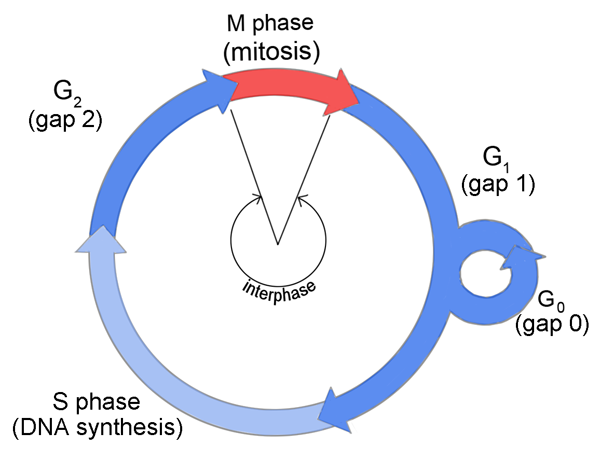
6:5 Interphase

INTERPHASE: the period of cell growth and development that precedes mitosis and follows cytokinesis.

Events of Interphase:

* The cell spends most of its life in interphase.
* 3 phases of Interphase:

1. G1 phase:
   1. Cells grow bigger
   2. DNA is in chromatin form, spread throughout the nucleus
2. S phase:
   1. Synthesize (make) DNA, cell will contain two exact copies of each chromosome
3. G2 phase:
   1. Prepares for cell division
   2. Grows bigger
   3. Makes organelles needed for cell division

* Some cells enter G0 phase:
  + Cells do not copy their DNA and do not prepare for cell division
  + Exit the cell cycle after G1 phase
  + Examples: fully developed cells in the central nervous system, heart muscle cells

