

General Biology 1

Bugaring, Maurene Claire P.

CELL CYCLE

■ an ordered series of events involving cell growth and cell division that produces two new daughter cells

DNA DOUBLES

INTERPHASE

- during interphase, the cell undergoes normal growth processes, while also preparing for cell division
- three stages of interphase called Gap 1, Synthesis and Gap 2

Interphase

- DNA replication can proceed through the mechanisms that result in the formation of identical pairs of DNA
- the centrosome is duplicated during S phase

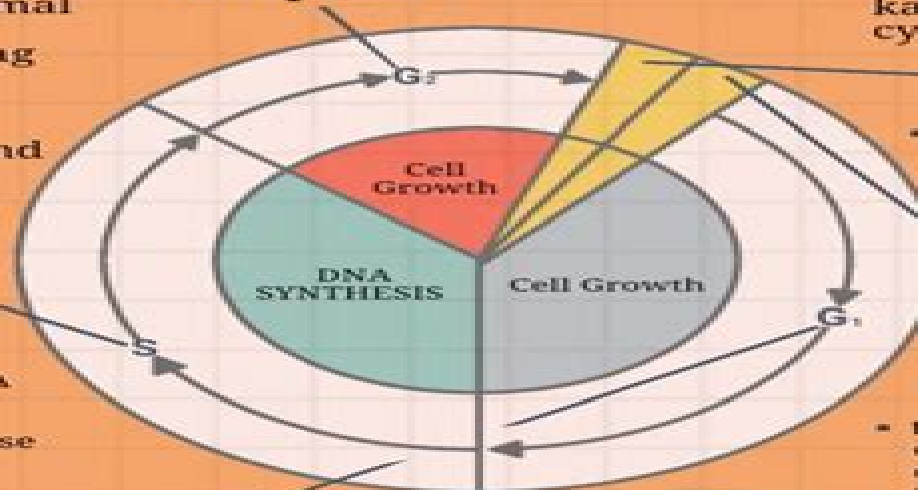


Interphase

- in this stage the cell is accumulating the building blocks of chromosomal DNA
- also in this phase, the cell grows physically larger

- the cell replenishes its energy stores and synthesizes proteins necessary for chromosome manipulation
- cytoskeleton is dismantled to provide resources for the mitotic phase
- there may be additional cell growth during second gap phase

Interphase



MITOTIC PHASE

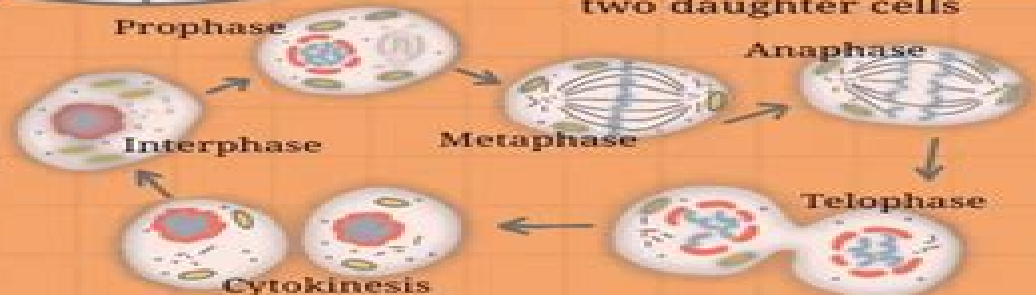
- mitotic phase, the multistep process during which the duplicated chromosomes are aligned, separated and move to opposite poles of the cell
- there are two portions of mitotic phase, the karyokinesis and cytokinesis

Mitosis

- a process that takes place in the nucleus of a dividing cell, involves typically a series of steps consisting of prophase, metaphase, anaphase, and telophase

Cytokinesis

- the physical separation of the cytoplasmic components into the two daughter cells



Biology 1406 Study Guide Cell Cycle

**Ruth Heidelberg, M. Neal
Waxham, John H. Byrne, James L.
Roberts**



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