

Cell Cycle Cheat Sheet

by Kyu via cheatography.com/179262/cs/37447/

Five phases of mitosis

Prophase - Chromosomes condense and Chromatids connect at centromeres.

Metaphase - Chromatid pairs align at metaphase plate.

Anaphase - Daughter chromosomes separate.

Telophase - Nuclear envelopes reform.

Cytokinesis - Division of the cytoplasm to form two identical daughter cells.

Mitosis is the process of cell division which results in the production of two daughter cells

from a single-parent cell.

Phases in Meiosis

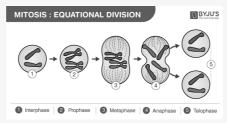
Meiosis 2 Meiosis 1 Prophase 1 - Each Prophase 2 -DNA does not chromosome duplicates and remains closely replicate. associated. These are called sister chromatids. Metaphase 1 - Chromo-Metaphase 2 somes align at the Chromosomes center of the cell. line up at the

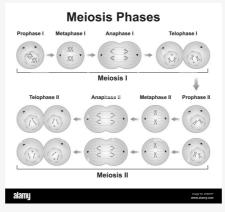
center of the cell. Anaphase 2 -Anaphase 1 -Chromosome pairs Centromeres divide and sister separate with sister chromatids remaining chromatids together. move separately to each pole.

Telophase 1 - Two Telophase 2 daughter cells are Cell division is formed with each complete. daughter containing only one chromosome of the chromosome pair.

Four haploid daughter cells are formed after the process.

Picture of the Mitosis cycle





Differences in Mitosis and Meiosi

Mitosis	Meiosis
Asexual	Sexual
Cell divides once	Cell divides twice
Two daughter cells	Four haploid daughter cells
Genetic information is identical	Genetic information is different

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The Cell life Cycle

cells

Cell Division - he reproduction of cells

Apoptosis - genetically programmed death

Mitosis - the nuclear division of somatic

Meiosis - the nuclear division of sex cells

