

THE PROCESS OF MEIOSIS

Meiosis is a process in which a single cell divides two times to make four cells that each have half the original amount of genetic material. These cells are known as our sex cells, which are sperm in males and eggs in females.

STAGE

Prophase 1



DESCRIPTION

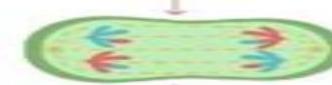
Chromosomes pair up and recombination occurs.

Metaphase 1



Chromosomes line up in the middle. Spindle fibers are formed and attached to centromeres.

Anaphase 1



Homologous chromosomes are pulled apart by spindle fibers.

Telophase 1/Cytokinesis



Cell pinches in the middle.

Prophase 2



Two daughter cells are formed.

Metaphase 2



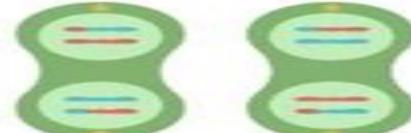
In each daughter cell the chromosomes line up in the middle.

Anaphase 2



Sister chromatids are pulled apart by the spindle. Separated chromatids are not individual chromosomes.

Telophase 2/Cytokinesis



The cell pinches in the middle and cytokinesis is complete there are four granddaughter cells each with half a set of chromosomes.

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Glencoe/McGraw-Hill, 1994-07 *MCAT Biology Review 2023-2024* Alexander Stone Macnow, 2022 Kaplan's MCAT Biology Review 2023 2024 offers an expert study plan detailed subject review and hundreds of online and in book practice questions all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined **MCAT Biology Review 2025-2026** Kaplan Test Prep, 2024-08-13 Kaplan's MCAT Biology

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