

The Steps of Mitosis

Interphase

- cell grows
- DNA duplicates

Early Prophase

- Rod shaped chromosomes form from the chromatin

- centrioles start to move apart

Late Prophase

- chromosomes pair up with their copies

- copies attach at the centromere

- nuclear membrane disappears

Metaphase

- centrioles stretched fibers across cell

- paired chromosomes line up along middle of cell and attach to fibers

Anaphase

- chromosome pairs separate; pulled apart as fibers retract

Telophase

- cytoplasm begins to pinch off

- nuclear membrane reforms around each set of chromosomes

Cytokinesis

- final separation of cytoplasm

- two new identical cells are formed for growth, repair, and replacement

New Body Cell

New Body Cell

