

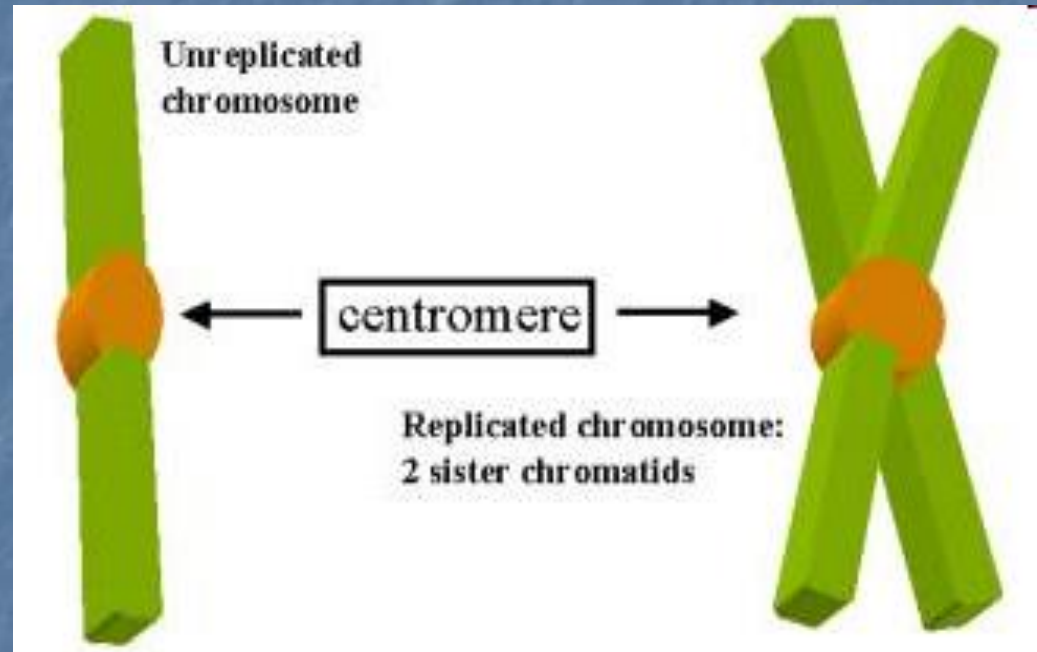
Mitosis:

- If a cell wants to make a duplicate of itself, it first must copy its DNA (part of a chromosome).
- The copies then must be separated & sorted into two sides of the cell.
- The cell then splits in two. Part of each parent is carried to the two new cells.
- Results in cells such as internal organs, skin, bones, blood, etc.

Interphase occurs just before Mitosis begins:

Preview from Notesale.co.uk
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DNA is replicated along with organelles and other cellular components and the cell prepares for division.

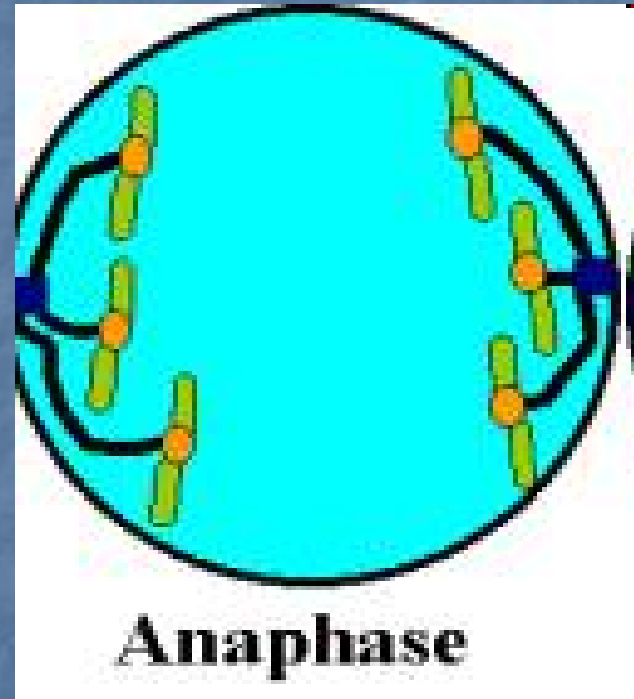


3rd step in Mitosis:

Anaphase (separation phase)

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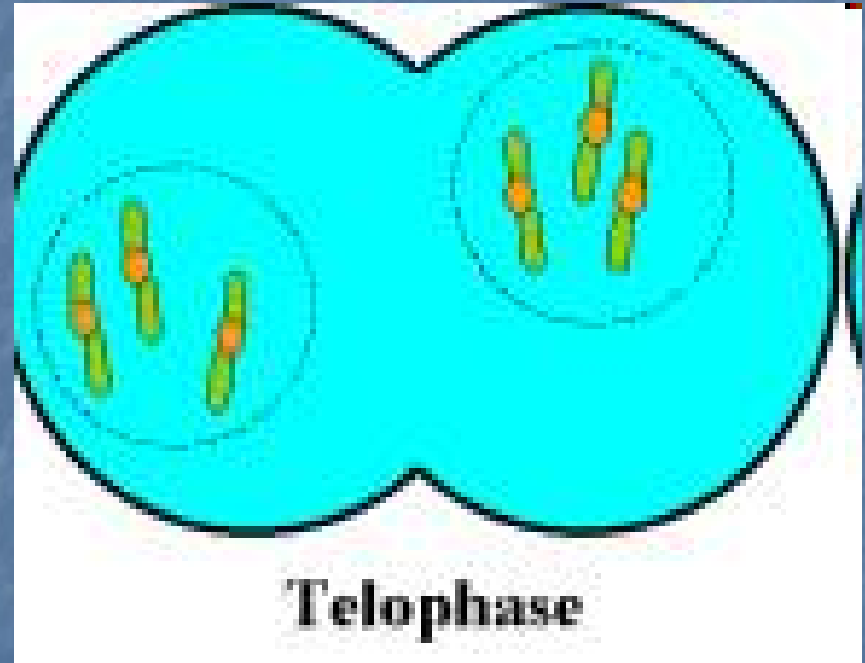
The chromosomes split in the middle and the sister chromatids are pulled by the spindle fibers to opposite poles of the cell.



4th step in Mitosis:

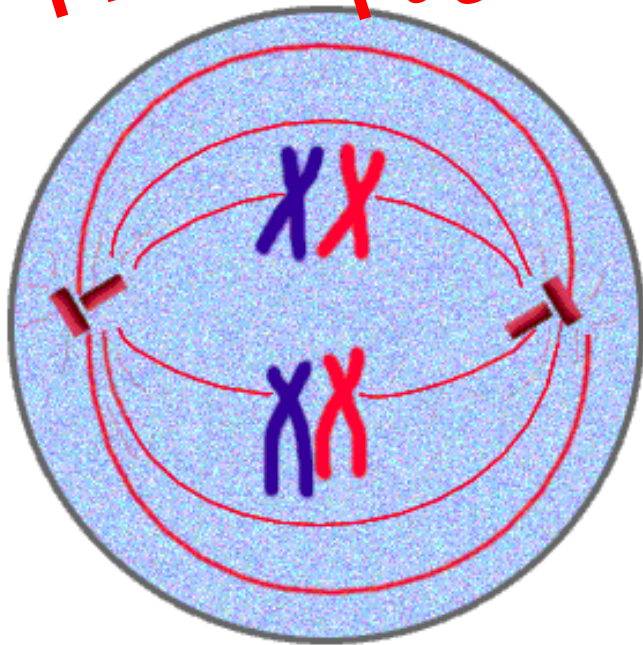
Telophase

The chromosomes, along with the cytoplasm and its organelles and membranes are divided into 2 portions. This diagram shows the end of telophase.



Meiosis Metaphase I

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The nuclear membrane dissolves and the homologous chromosomes attach to the spindle fibers. They are preparing to go to opposite poles.