Chapter 6-3

Mitosis & Cytokinesis

Spindles

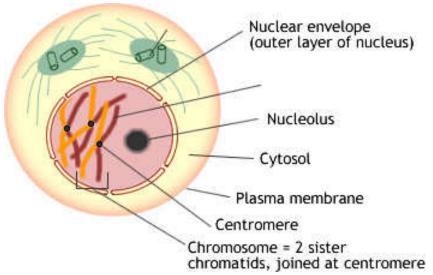
 Cell structures made up of both centrioles and microtubule fibers that are involved in moving chromosomes during cell division.

Centrioles

 Found only in animal cells and are involved in the formation of the fibers responsible for moving the chromosomes.

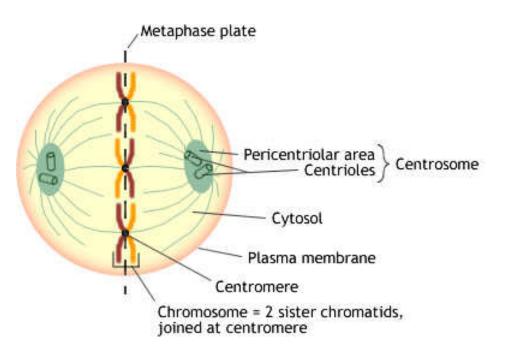
Prophase

- Chromosomes become visible
- Nuclear envelope dissolves
- Spindle forms



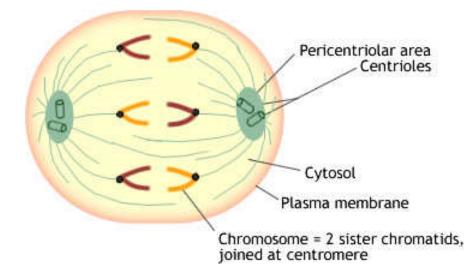


 Chromosomes line up along equator



Anaphase

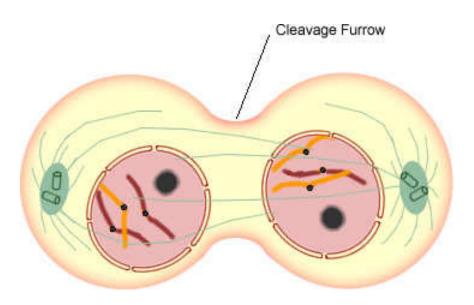
- Centromeres divide
- Chromatids move toward opposite poles



Telophase

- Nuclear envelope forms at each pole
- Chromosomes uncoil
- Spindle dissolves

Cytokinesis begins



Cytokinesis

- Cytoplasm of the cell divides in half.
- Cell membrane grows to enclose each cell.
- Formation of two separate cells that are genetically identical.

