#### Chapter 6-3

#### Mitosis & Cytokinesis

# Spindles

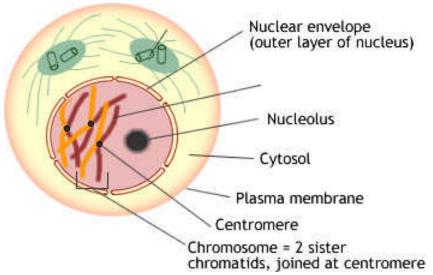
 Cell structures made up of both centrioles and microtubule fibers that are involved in moving chromosomes during cell division.

#### Centrioles

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

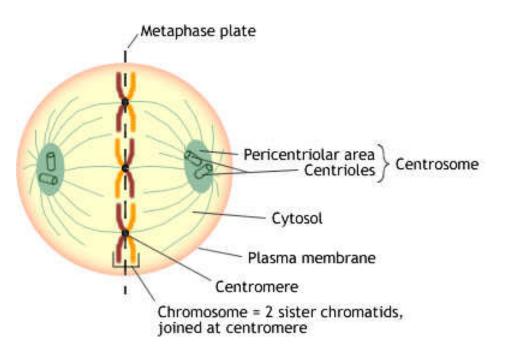
# Prophase

- Chromosomes become visible
- Nuclear envelope dissolves
- Spindle forms



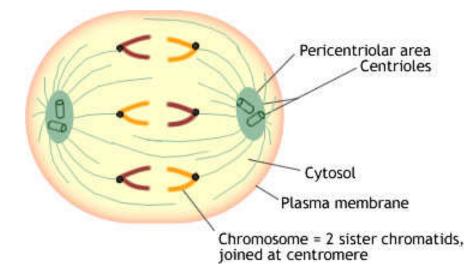


 Chromosomes line up along equator



#### Anaphase

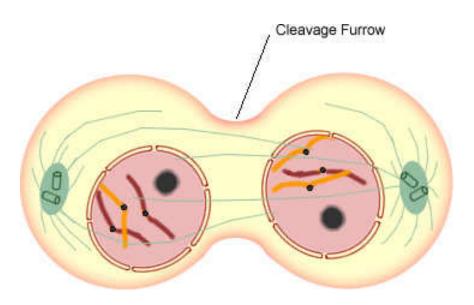
- Centromeres divide
- Chromatids move toward opposite poles



## 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.

