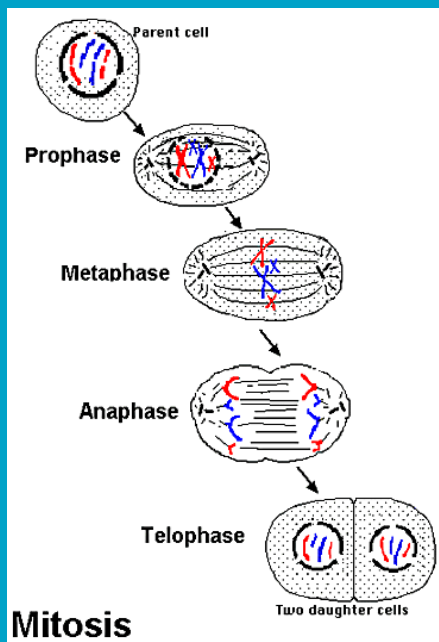
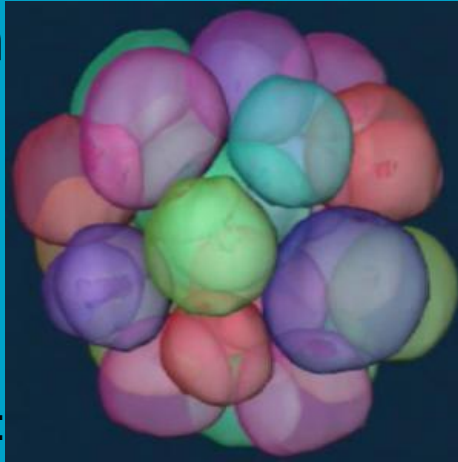


Cell Division

Also known as
Mitosis

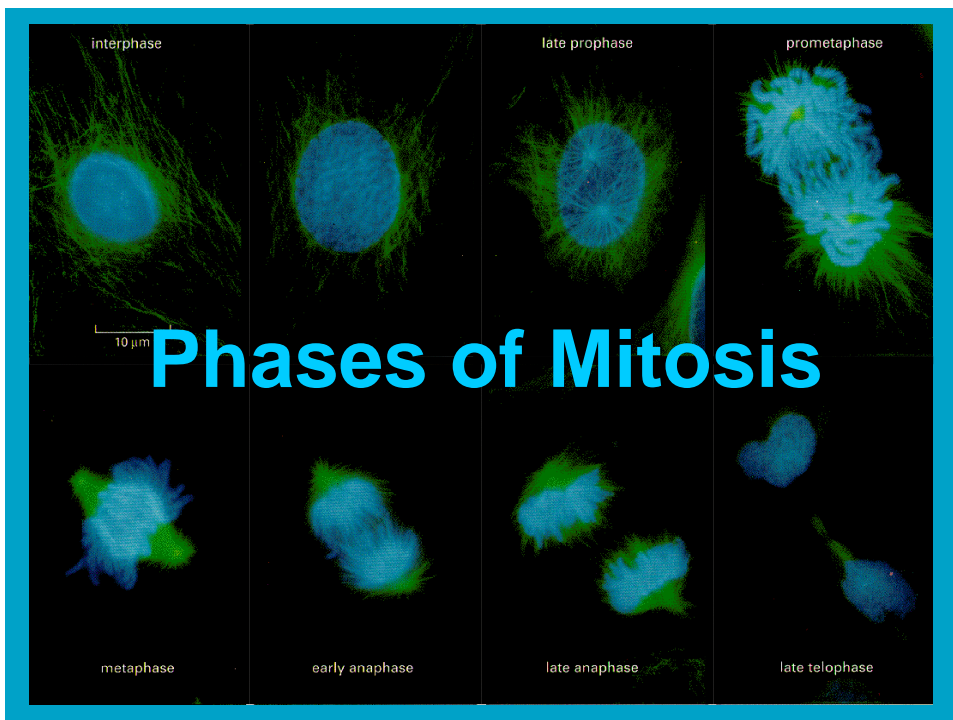
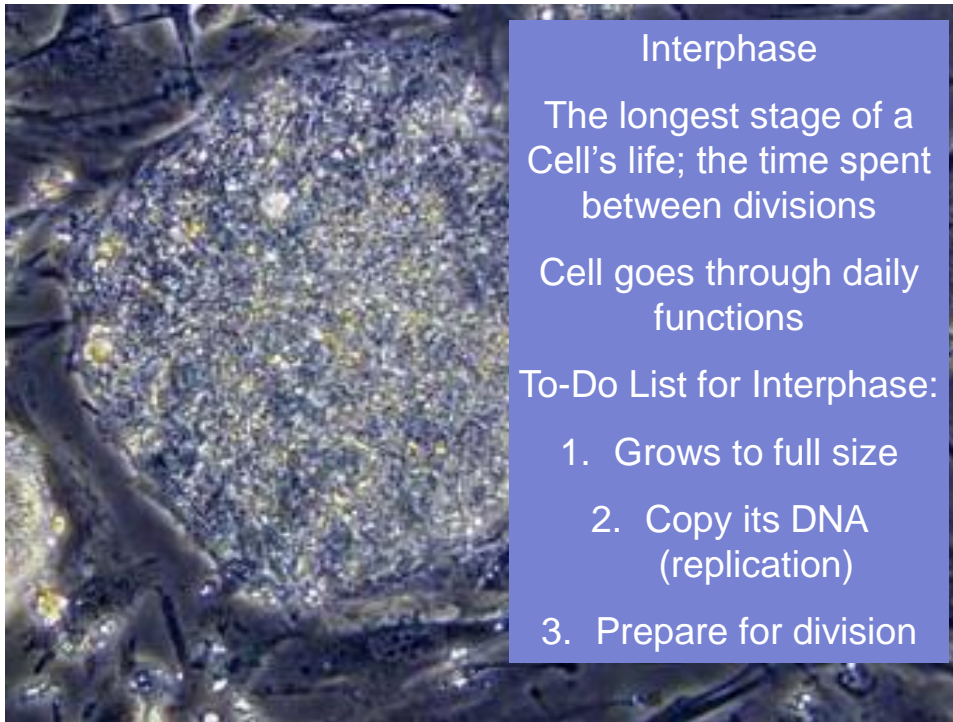
Takes place in
Regular Body Cells

Reasons for Mitosis:
growth, repair,
reproduction



The Basic Phases
of a Cell's Life:

- Interphase
- Mitosis
 - Prophase
 - Metaphase
 - Anaphase
 - Telophase
- Cytokinesis

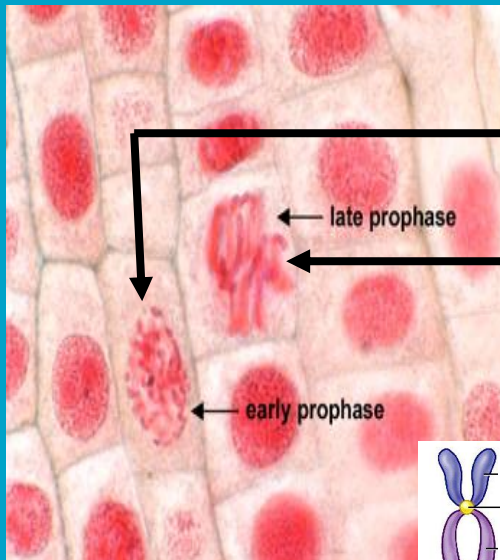
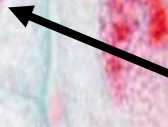




Prophase

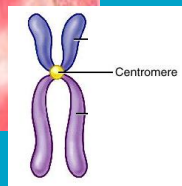
The Cell begins the division process

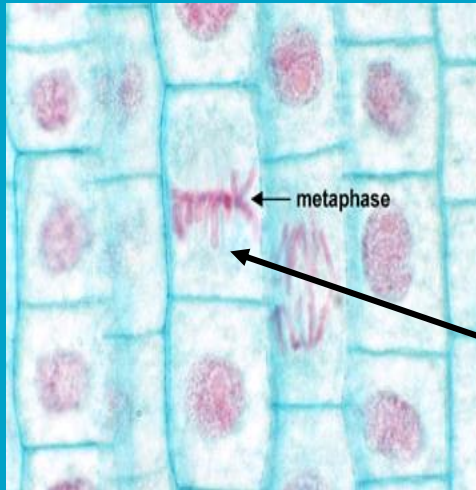
1. DNA condenses into chromosomes,
2. The nuclear membrane breaks apart



3. The chromosomes become visible

4. The spindle fibers form, attach to the centromeres of the chromosomes

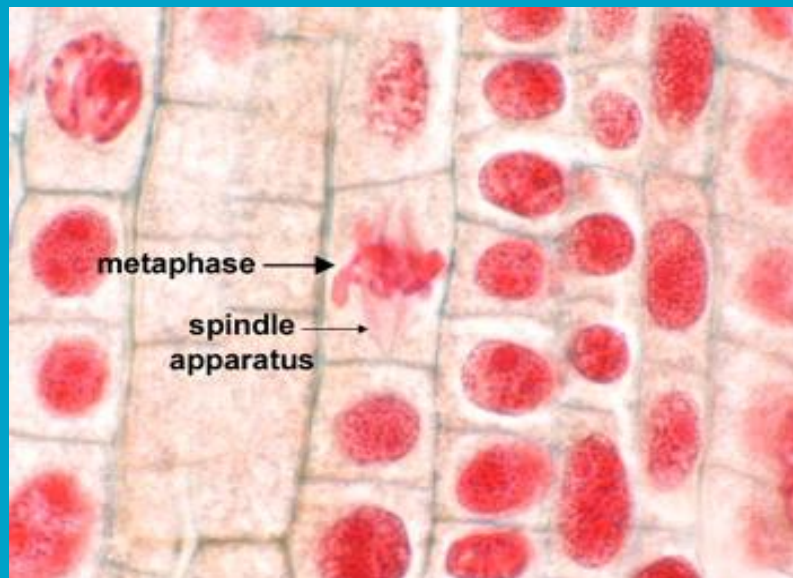


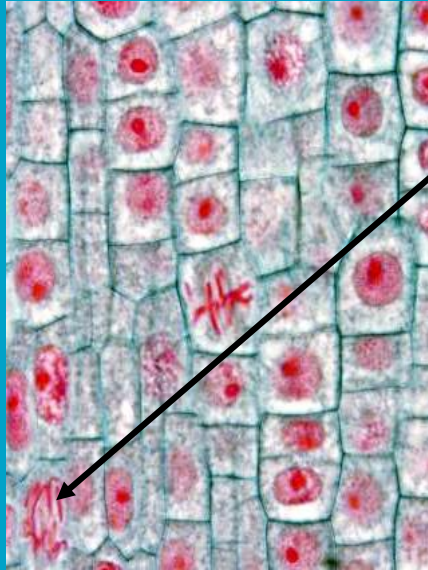


Metaphase

The Second Phase of Mitosis

1. The Nuclear Membrane is completely gone
2. The duplicated chromosomes line up along the MIDDLE of the cell.



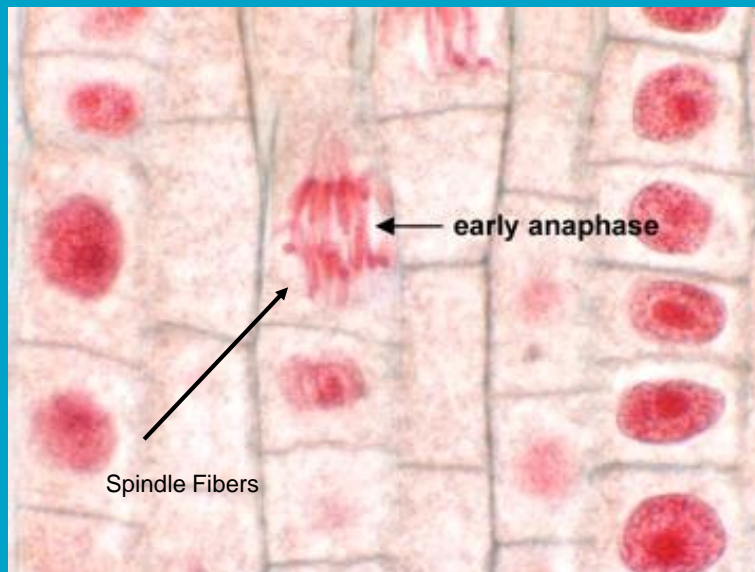


Anaphase

The third phase of Mitosis

The chromosomes (2 strands) are being pulled apart into chromatids (1 strand).

They are pushed and pulled toward opposite poles of the cell



Telophase

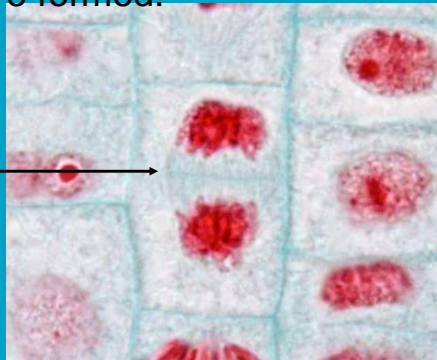
The nuclear membrane reforms and 2 nuclei form in each new daughter cell



Cytokinesis – The final stage of the Cell Cycle

The cytoplasm, organelles, and nuclear material are evenly split and two new cells are formed.

Cell Plate
(only in
plant
cells)



The two new cells – each exactly like the other – are called Daughter Cells

Click [HERE](#) to see a real cell in Mitosis

