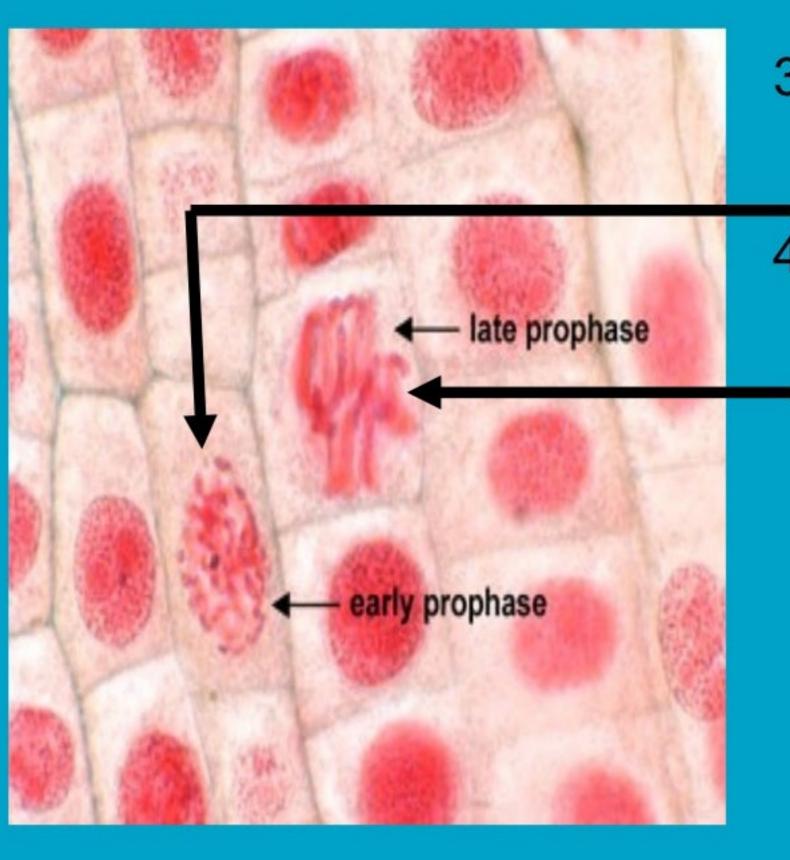


## Prophase

The Cell begins the division process

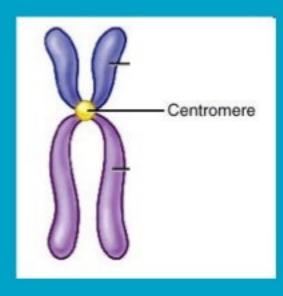
4. The nucleolus disappears,

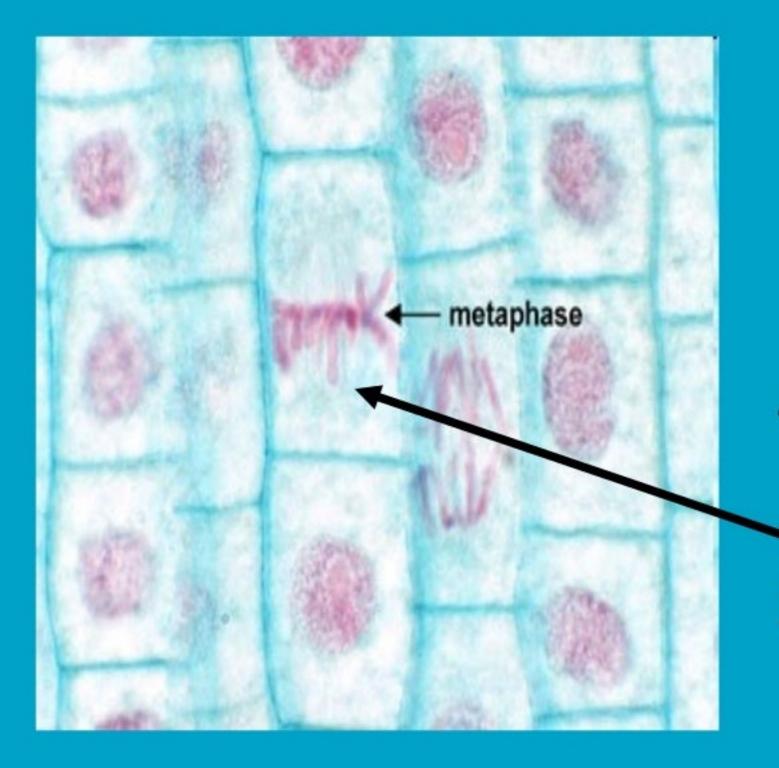
The nuclear membrane breaks apart



3. The chromosomes become visible

4. The spindle apparatus forms and attaches to the centromeres of the chromosomes

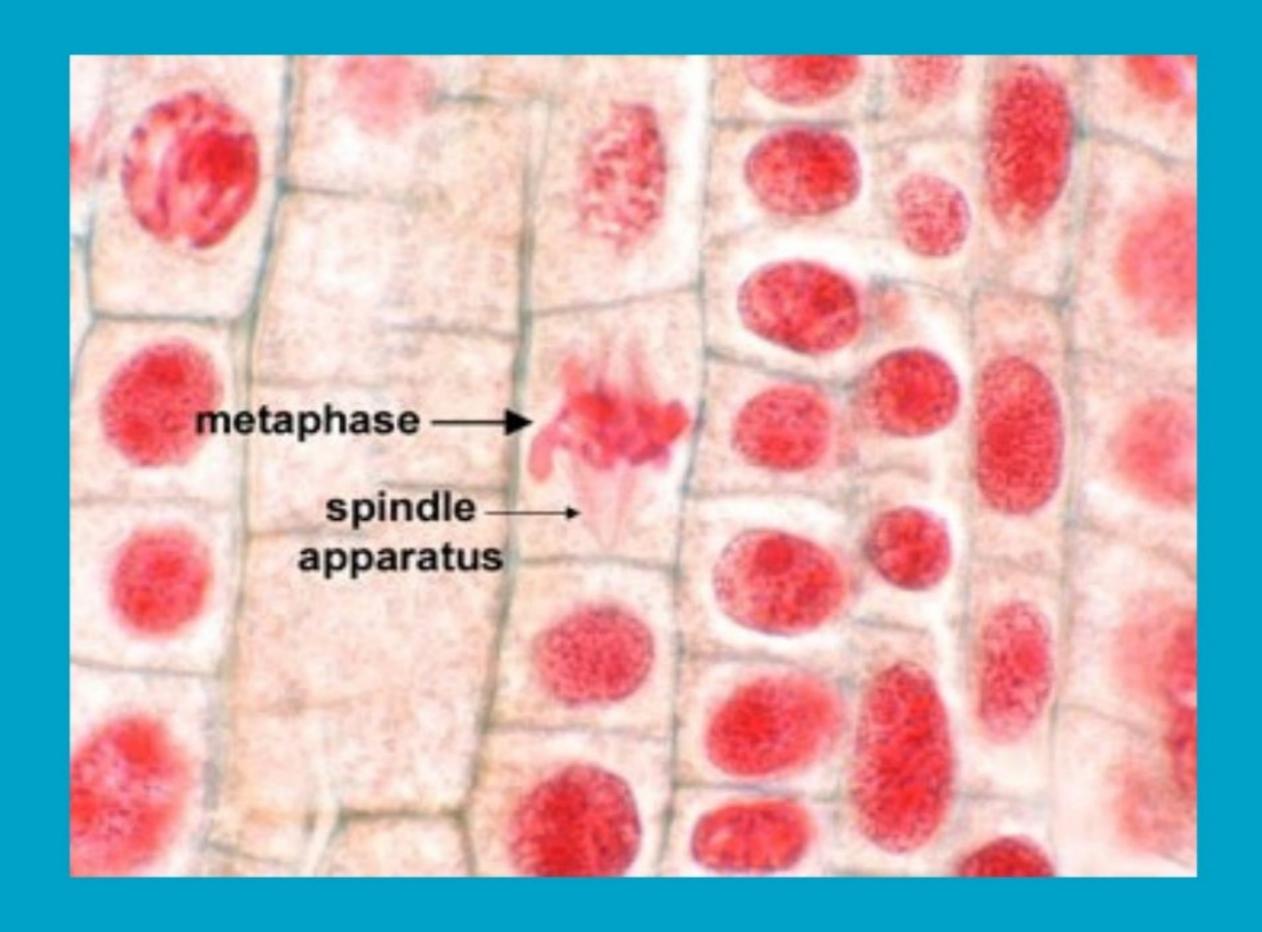


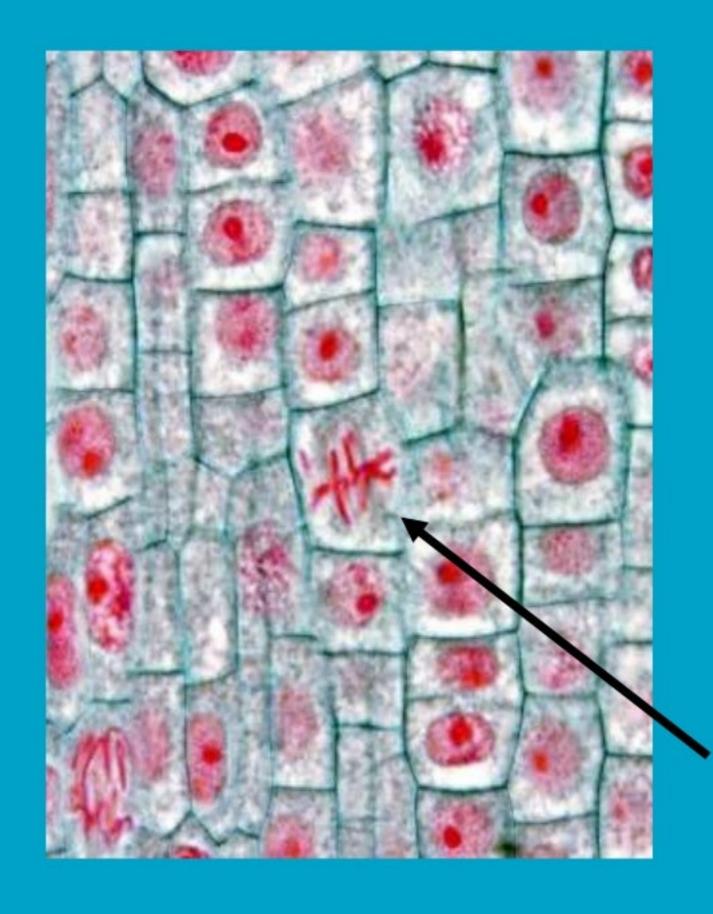


#### Metaphase

## The Second Phase of Mitosis

- 4. The NuclearMembrane iscompletely gone
- 2. The duplicated chromosomes line up along the cell's equator.



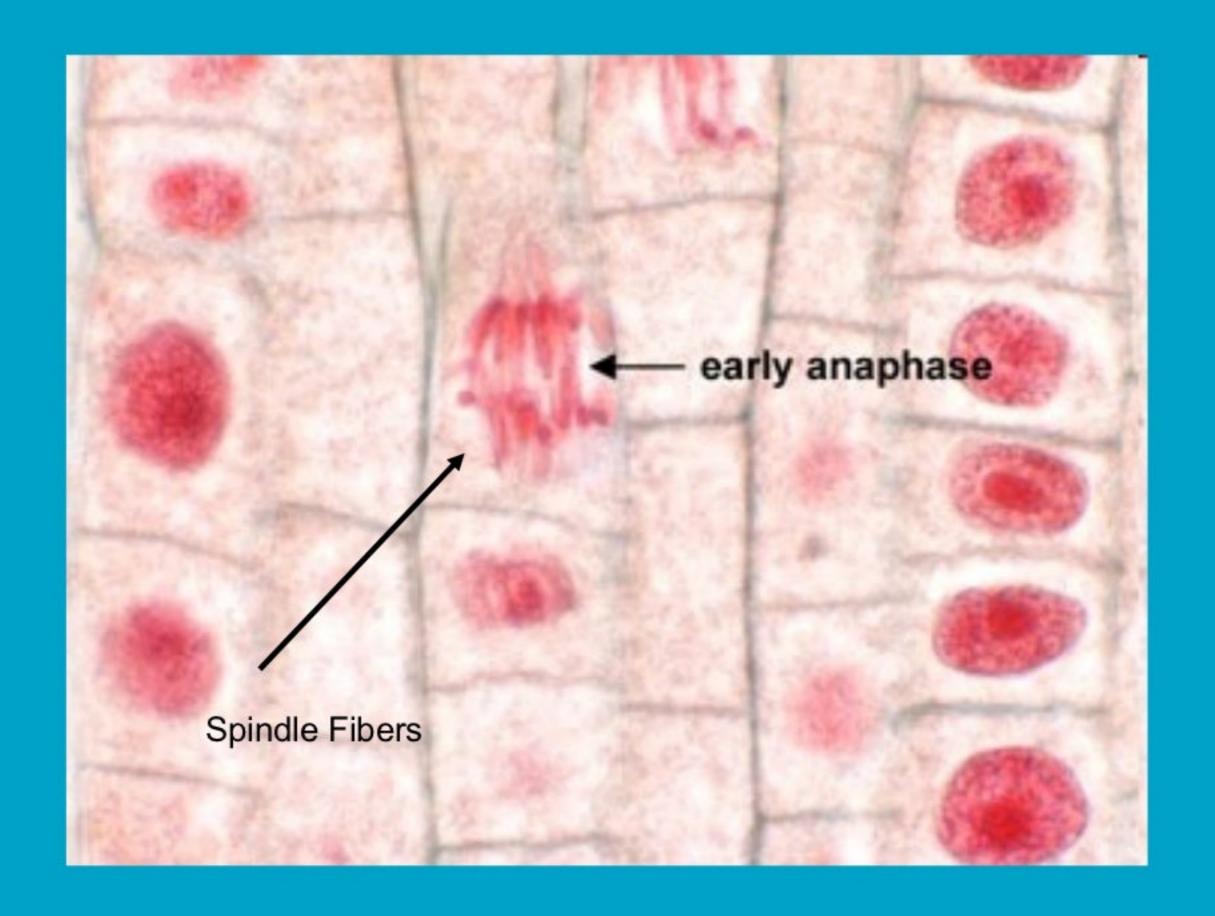


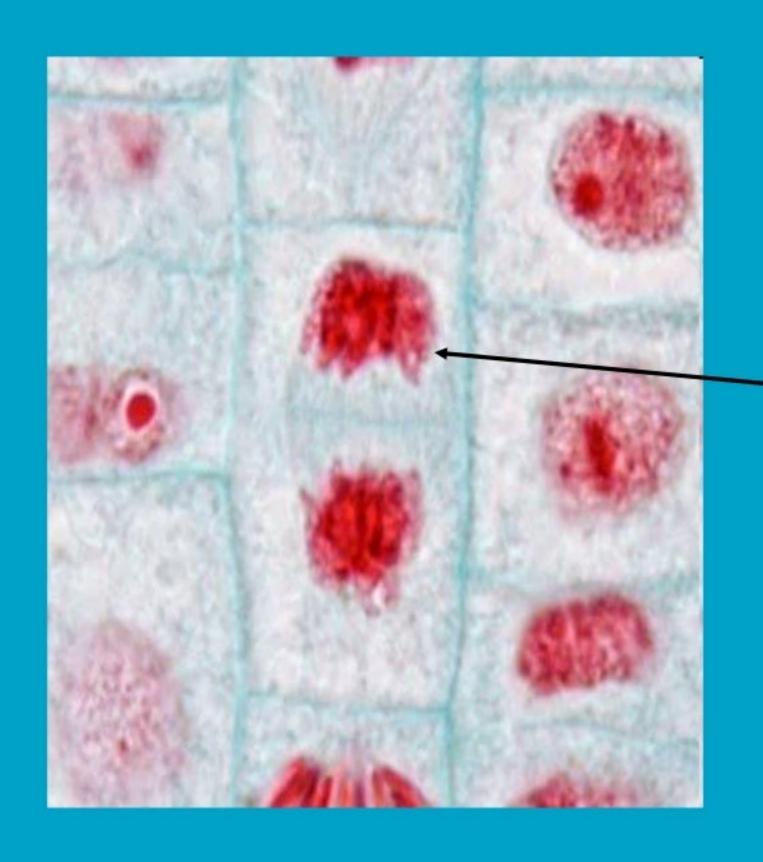
### Anaphase

The third phase of Mitosis

Diploid sets of daughter chromosomes separate

They are pushed and pulled toward opposite poles of the cell by the spindle fibers

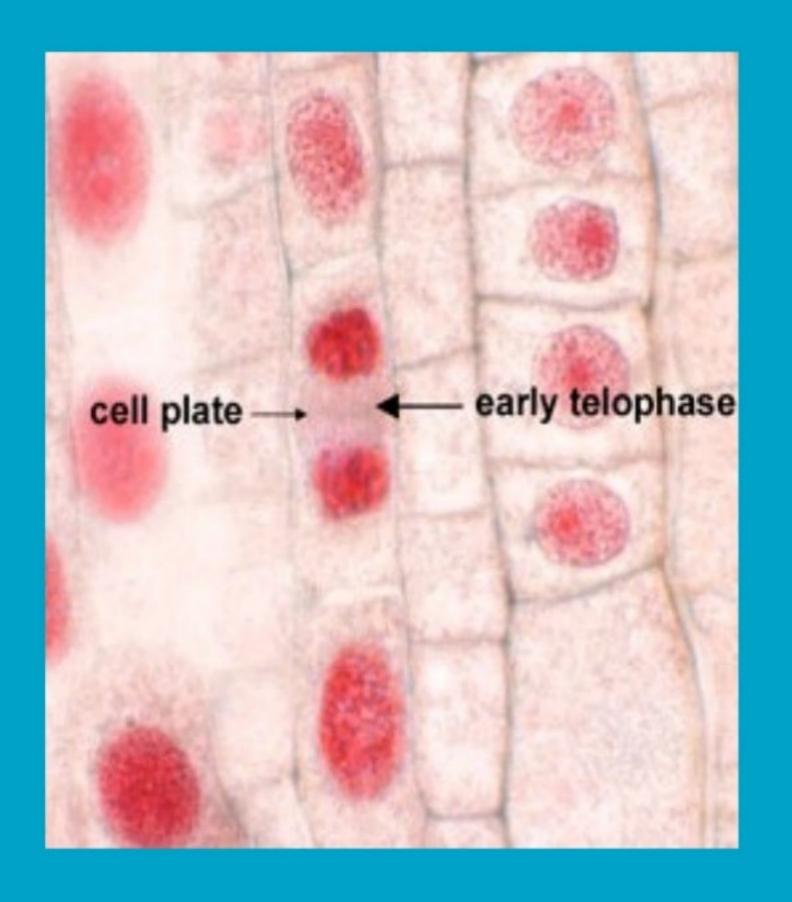




#### Telophase

The nuclear membrane and nucleoli (nucleus) reform.

Cytokinesis is nearly complete,

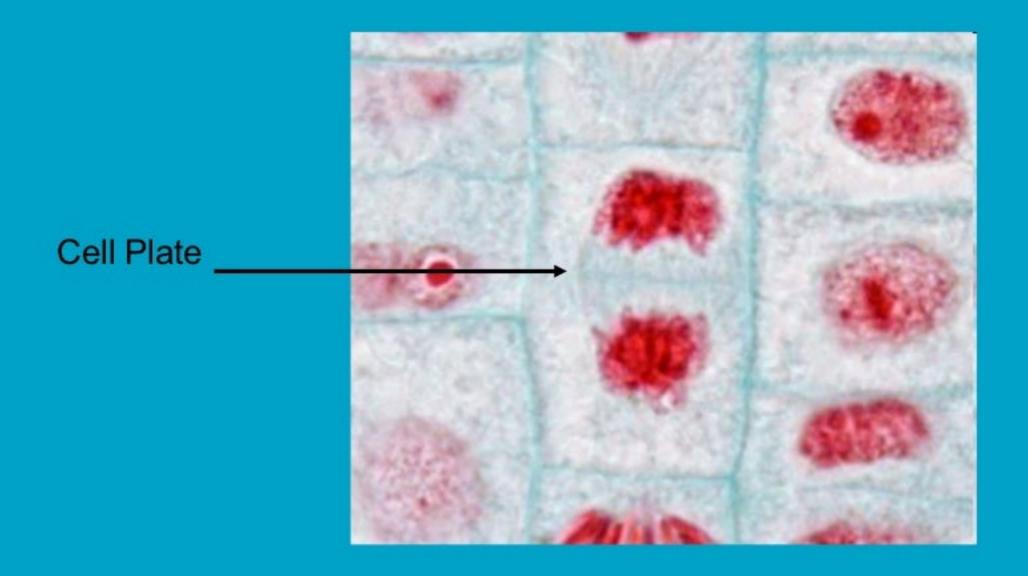


The Cell Plate begins to form

The Cell prepares for finial division

#### Cytokinesis – The final stage of Mitosis

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



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

