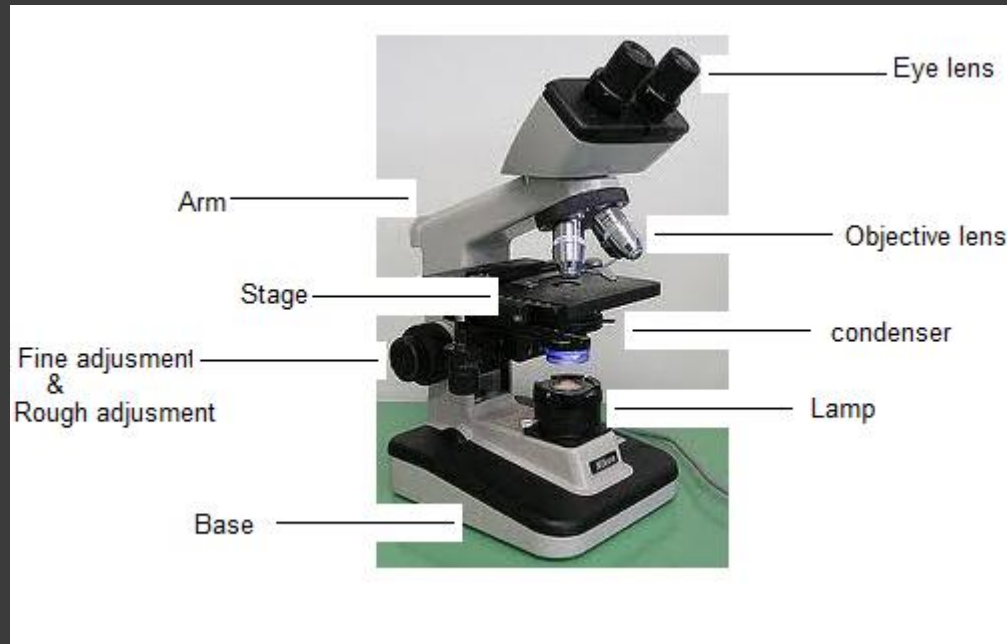


Microscope & cell division

بِسْمِ اللَّهِ الرَّحْمَنِ
الرَّحِيمِ

Microscope

Light Microscope



Cell division

- ⦿ What is the cell ?
- ⦿ Cell is the basic unit of all living things.
- ⦿ Cells make up bones, muscles, skin, and blood
- ⦿ As the organism grows, the cells must reproduce

2 kinds of cell division

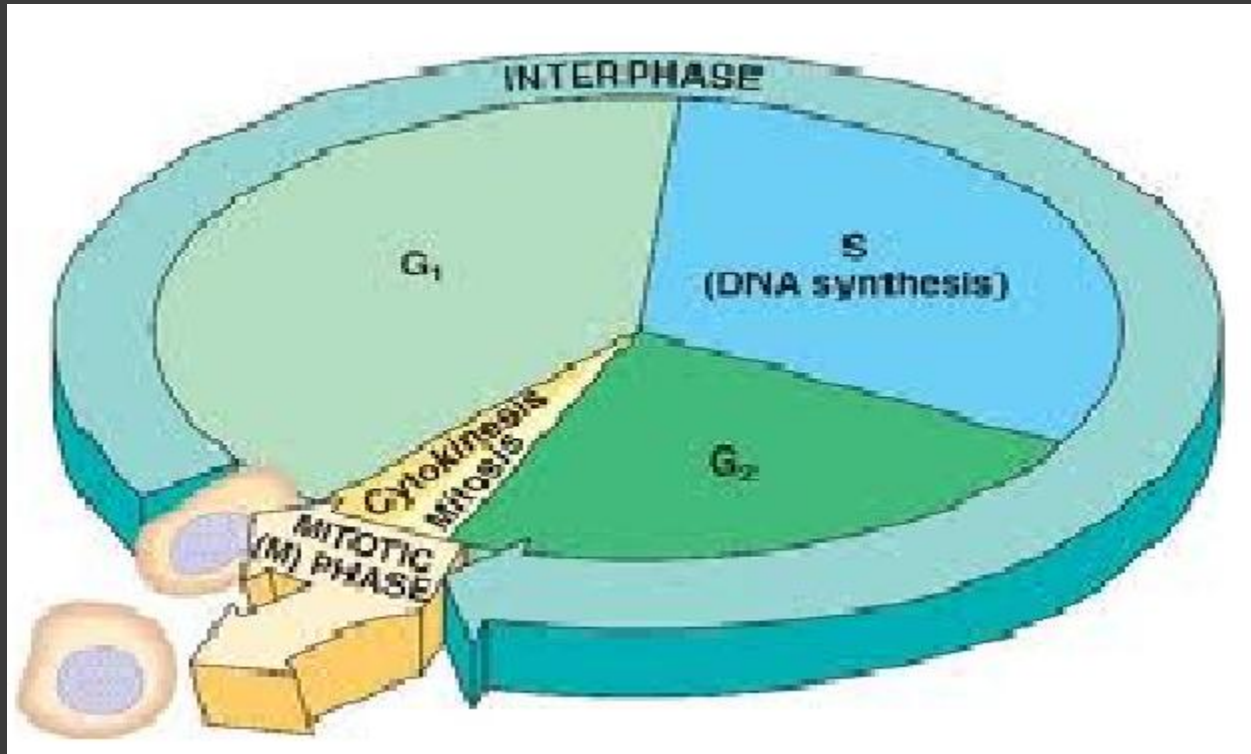
1- Mitosis:

Division of somatic cells .(Diploid $2N$)

2- Meiosis:

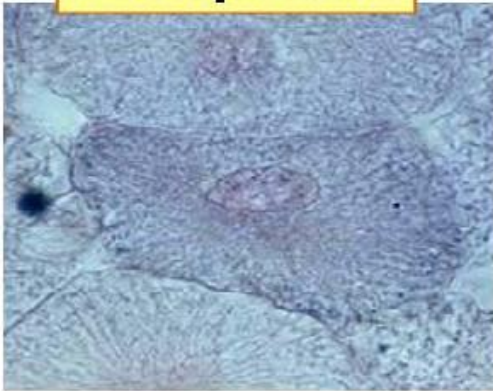
Creation of new sex cells (egg or sperm)(Haploid $1N$)

Cell cycle

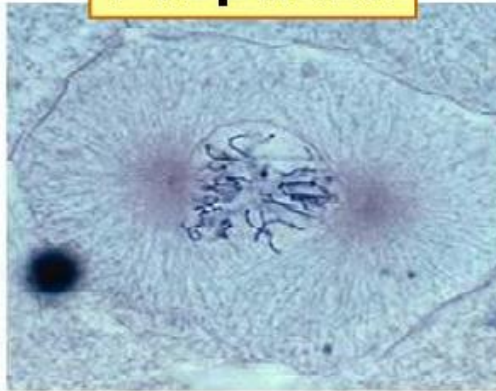


Mitosis

Interphase



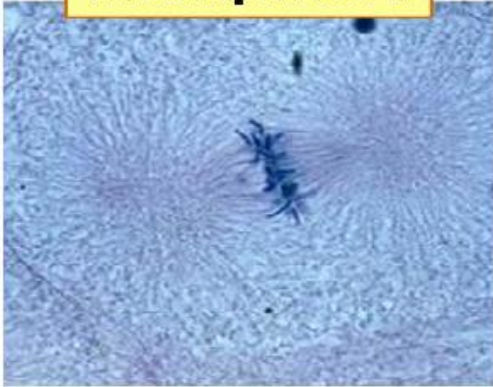
Prophase



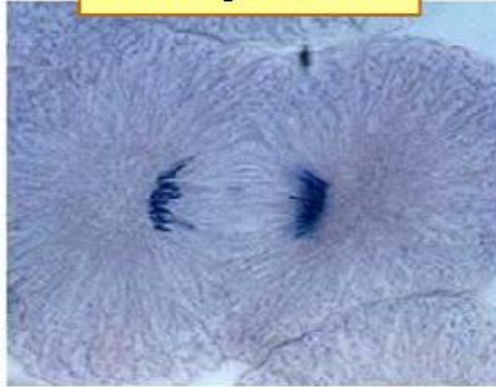
Metaphase



Metaphase



Anaphase



**Telophase,
cytokinesis**

