

Asexual Reproduction Occurs in all human cells  
**EXCEPT SPERM & EGG CELLS!!**

All Human Cells  
(Except Sperm & Egg)  
have 46 chromosomes

**Cell Cycle:**

1. **Grow** (INTERPHASE: G<sub>1</sub>, S, G<sub>2</sub>)
2. **Divide** (MITOSIS)

*growing* ↑ DNA replicates ↑ *more growing*



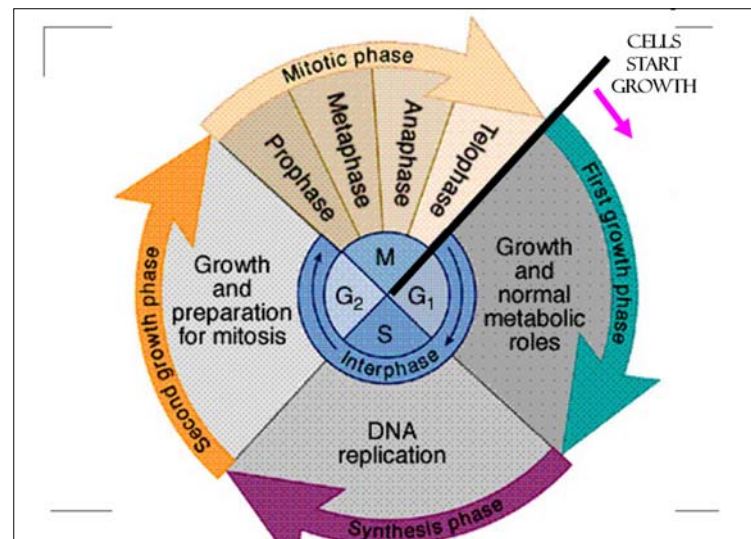
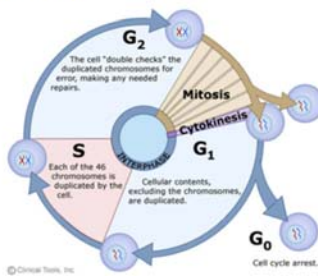
**INTERPHASE:**

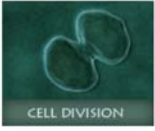
○ Consists of 3 stages: G<sub>1</sub>, S, G<sub>2</sub>

**G<sub>1</sub> = Growth**

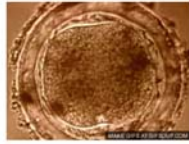
**S = DNA Synthesis (Replication)**

**G<sub>2</sub> = More Growth**



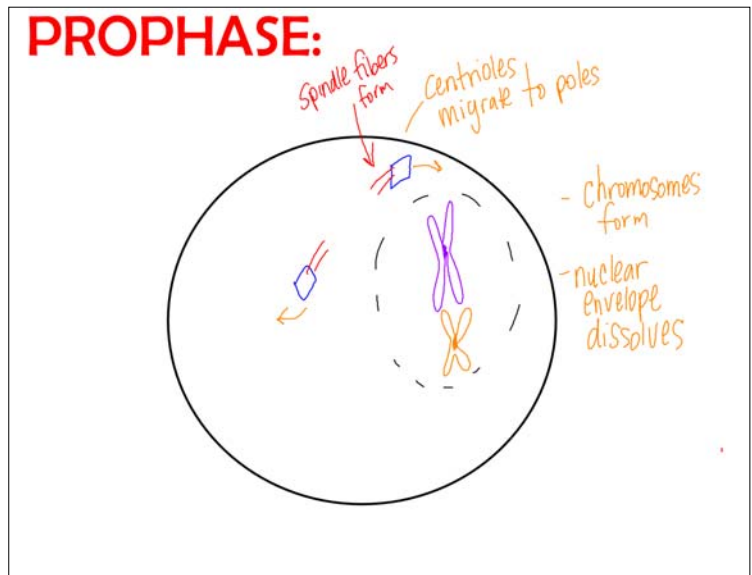
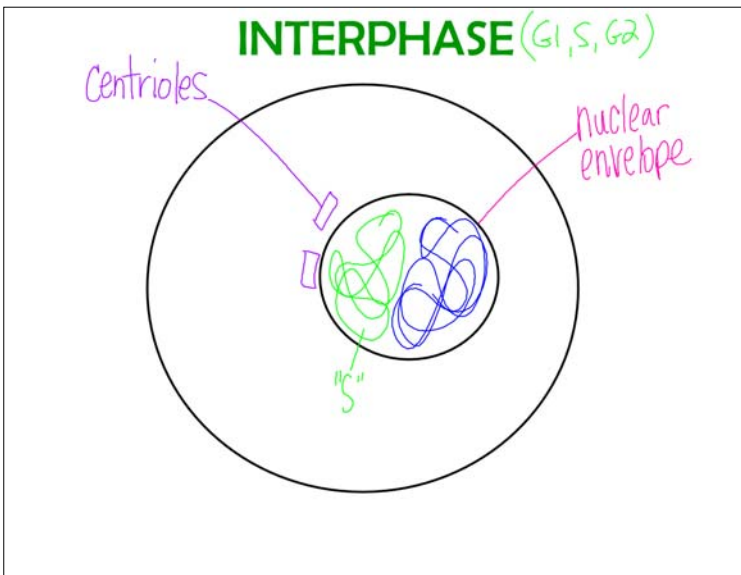
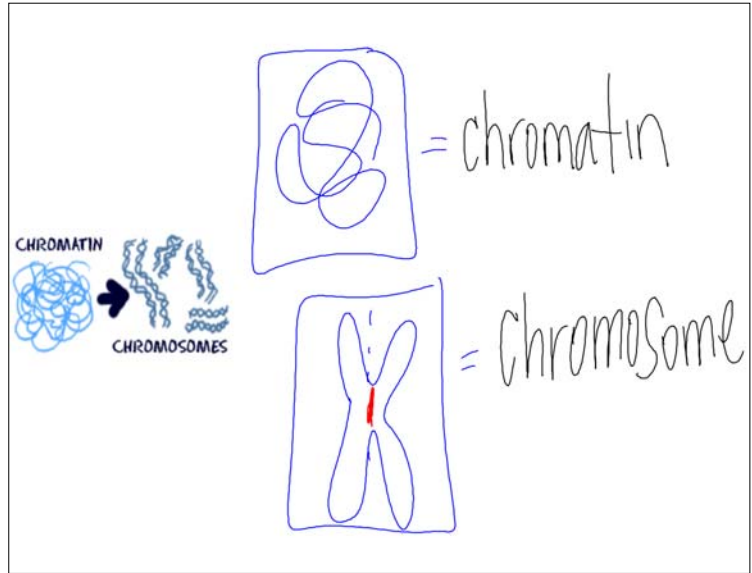
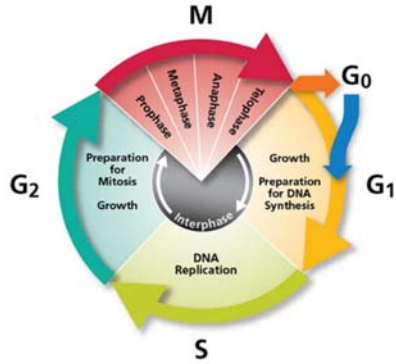


# MITOSIS (cells divide)



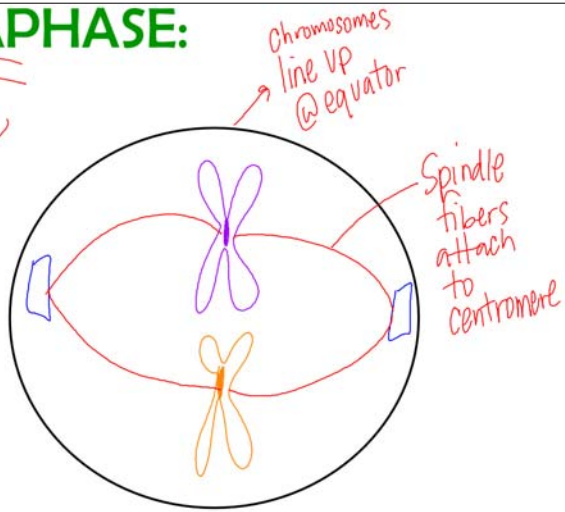
## Phases:

1. Prophase
2. Metaphase
3. Anaphase
4. Telophase



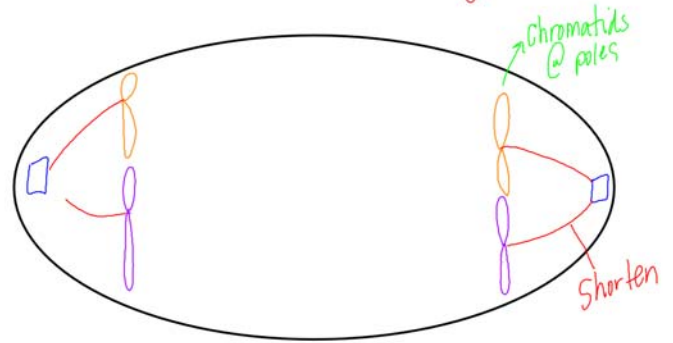
# METAPHASE:

middle



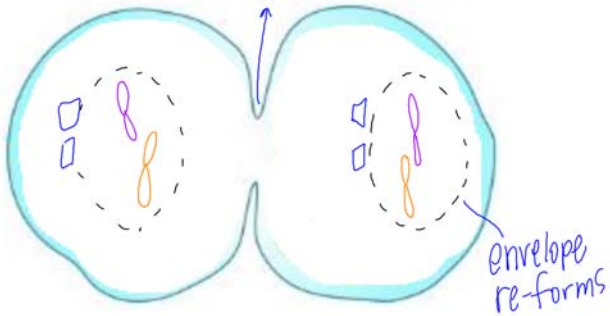
# ANAPHASE:

Cell is elongated



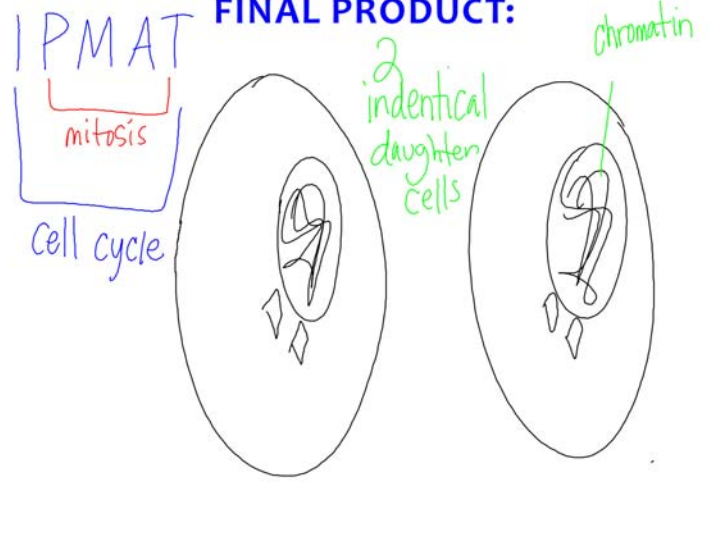
# TELOPHASE:

Cell membrane pinches

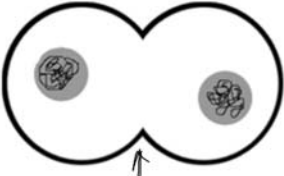


Cytokinesis: cell divides into 2

# FINAL PRODUCT:

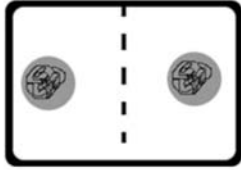


Animal Cell



Cleavage furrow

Plant Cell



cell plate