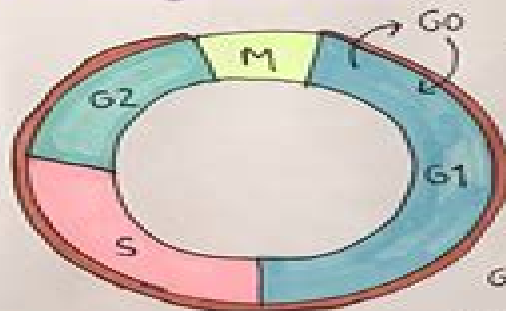


# The Cell Cycle + Mitosis

## THE CELL CYCLE



G0 - Rest phase triggered at restriction point for apoptosis / senescence or differentiation  
 G1 - prepares cell to move on into S phase by duplicating organelles + increasing in size + makes proteins for S phase.  
 - controlled by P53

S (Synthesis) - once entered must progress to mitosis. DNA synthesis (replication) occurs. Takes place rarely due to high mutation risk.

G2 - Chromosomes condense + spindle form as a result of a protein triggered by chemicals. cell continues to grow

M - cell enters mitosis and the cell produce either enter G0 or interphase.

- = interphase

## MITOSIS



### PROPHASE

- DNA packs + condenses - nuclear envelope breaks down  
 - Centrioles divide in 2 + move to each pole - Cytoskeleton forms spindle from tubulin, between centrioles.



### METAPHASE

- The pairs of chromatids line up in the equator of the cell and attach to spindle by centromere.



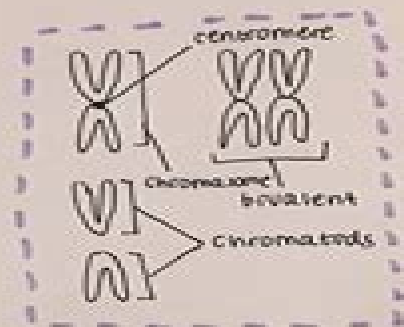
### ANAPHASE

- The centromere of each chromatid pairs split and one chromatid pulled to each pole by motor proteins.



### TELOPHASE

- New nuclear envelope forms around each new set of chromosomes forming 2 nuclei for each new cell.



### CYTOKINESIS

- plasma membrane pinch in separating 2 new cells  
 - end plate forms at equator + new cell membrane forms



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