
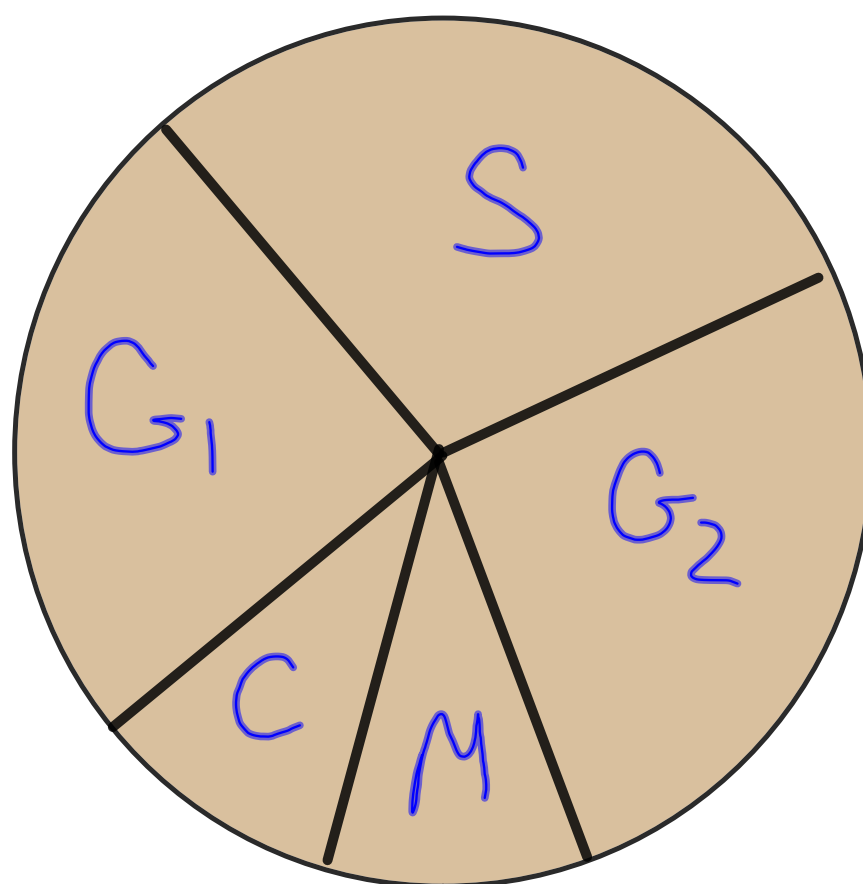
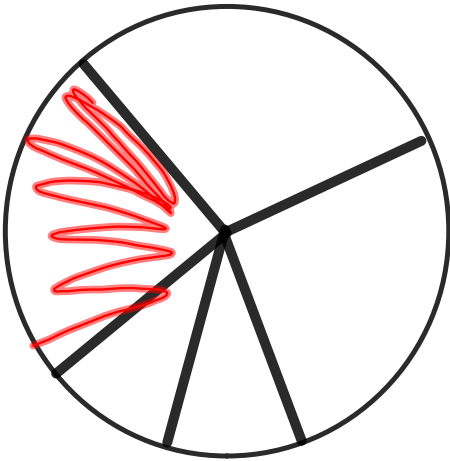


# Notes on Chapter 6-2

Cell Cycle is the cell division on a eukaryotic cell.  
 with nucleus

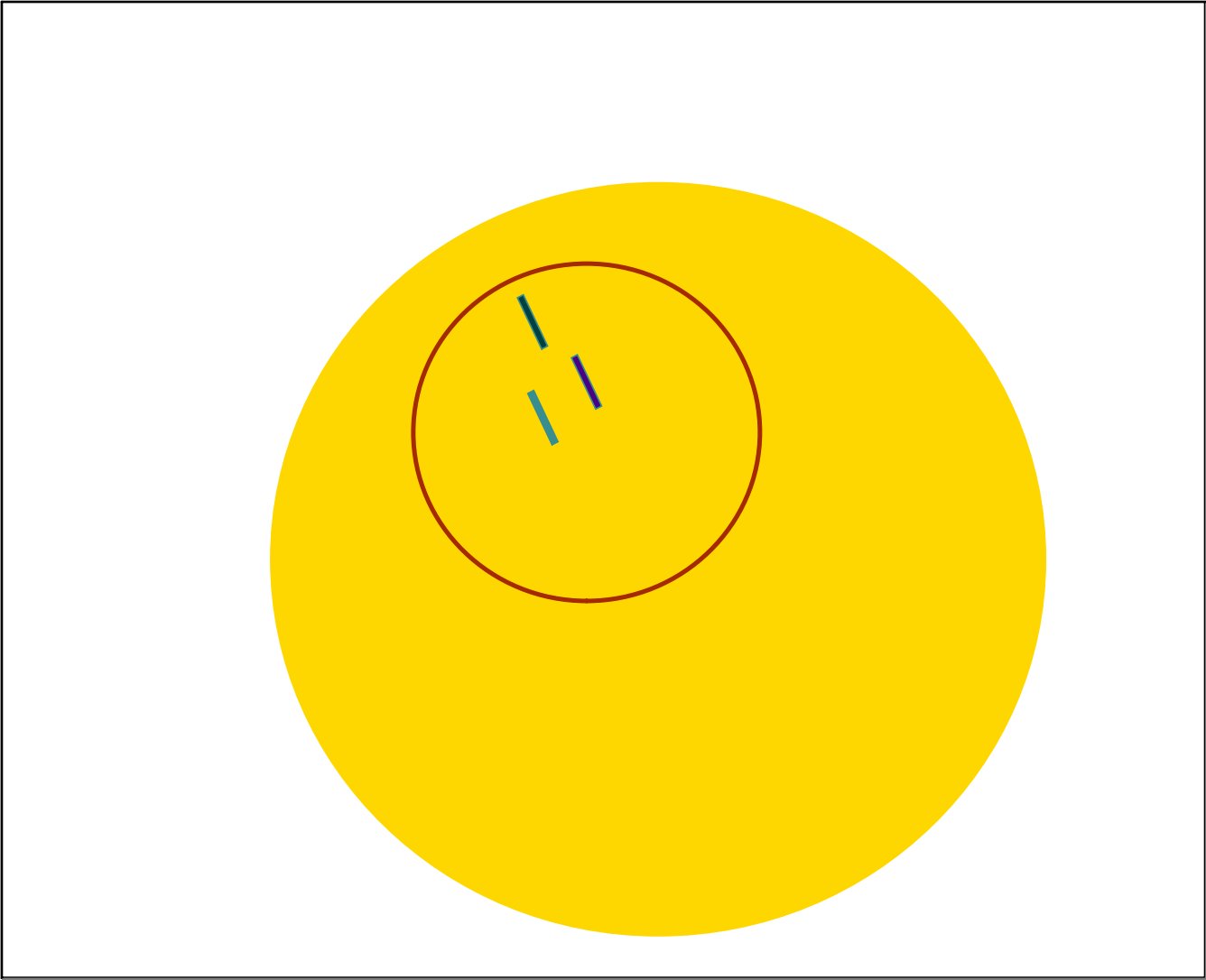
Cell cycle- a repeating Sequence of cellular growth and division during the life of an organism.

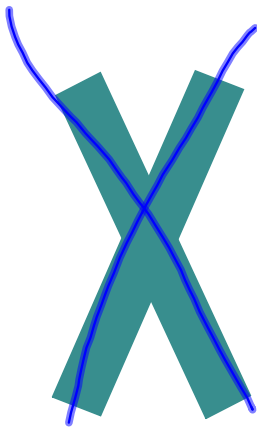
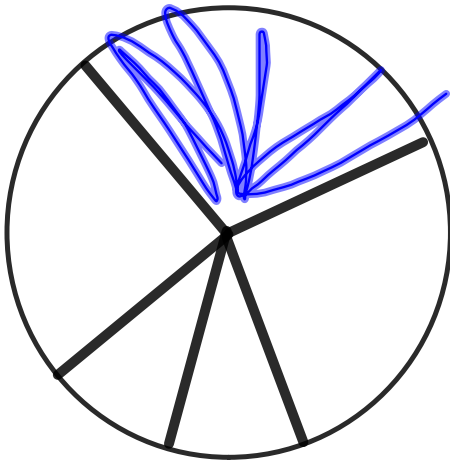




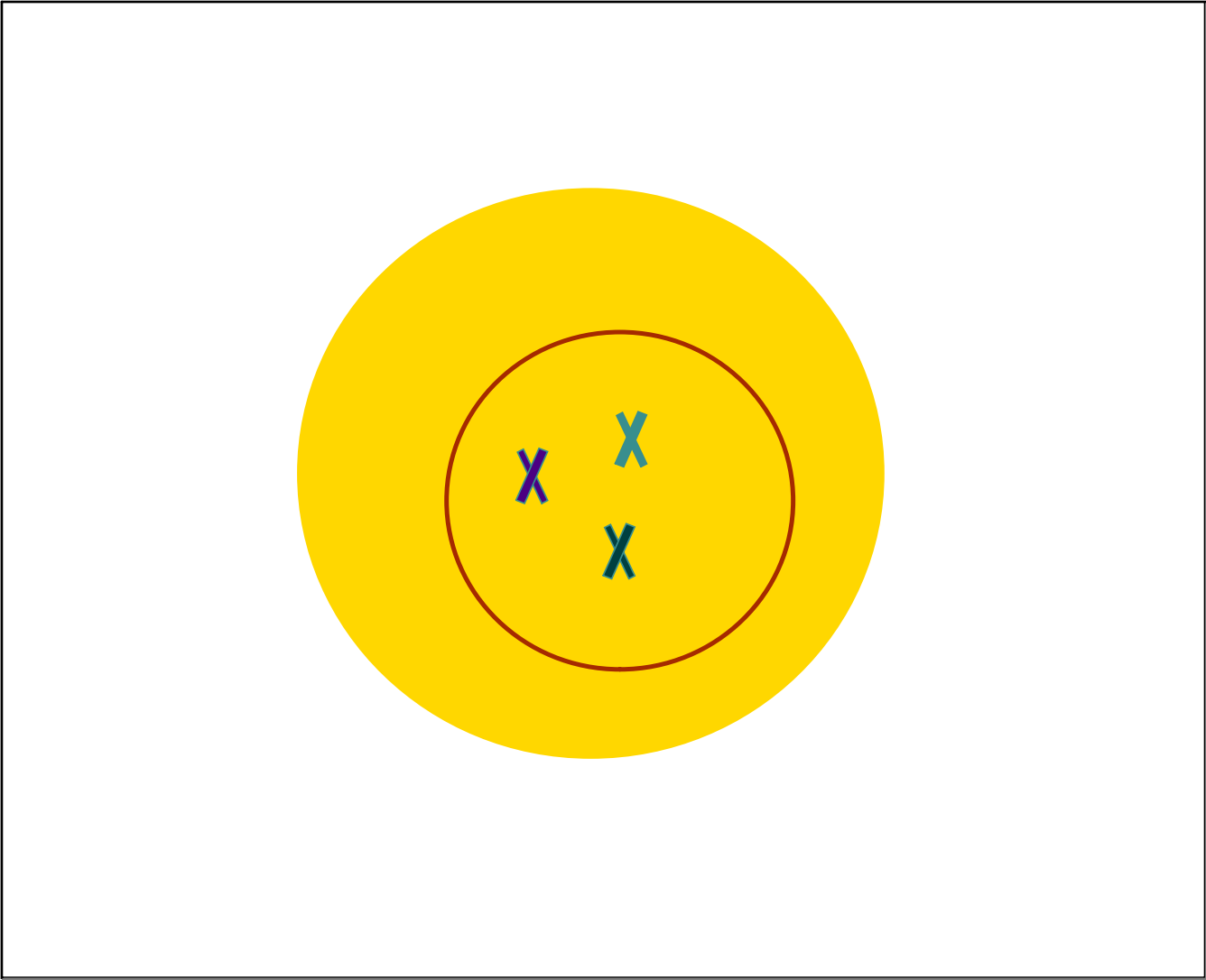
$G_1$  The first growth phase. A cell carries out its functions and grows.

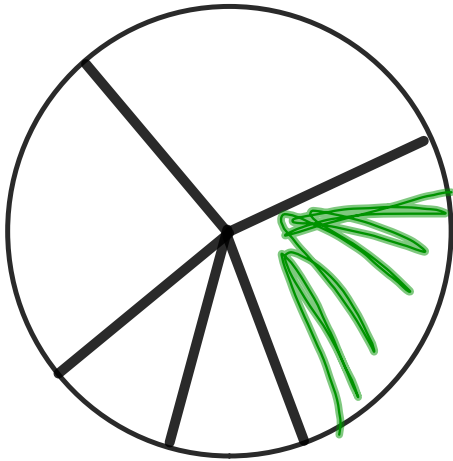
Cells that are not dividing stay in  $G_1$





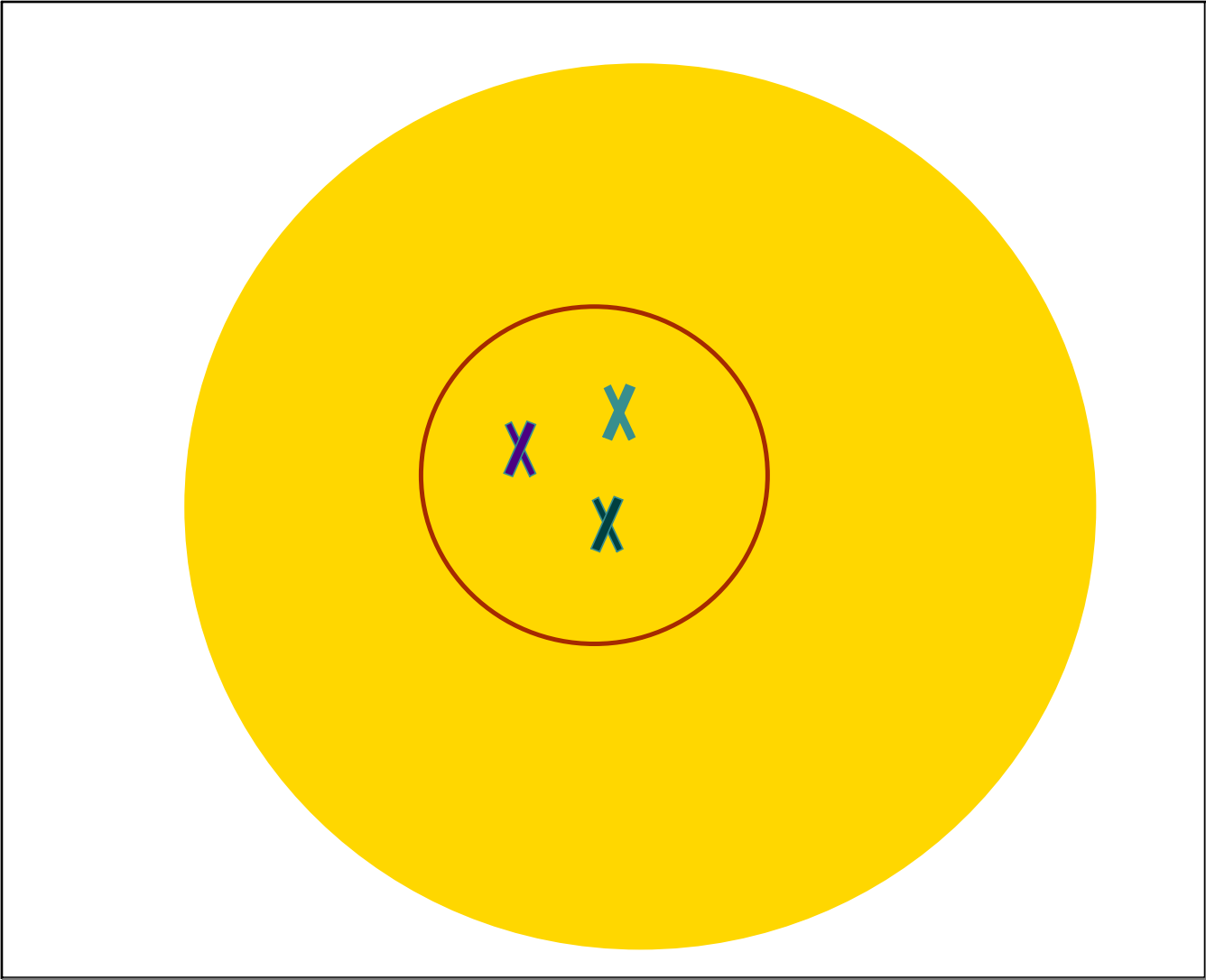
S phase- Synthesis- a cell's DNA is copied. At the end of this phase each Chromosome consists of two chromatids attached at the centromere

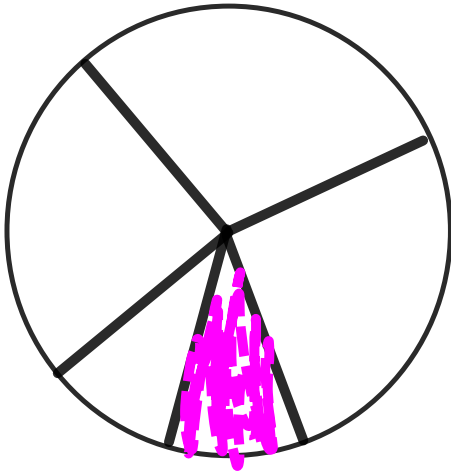




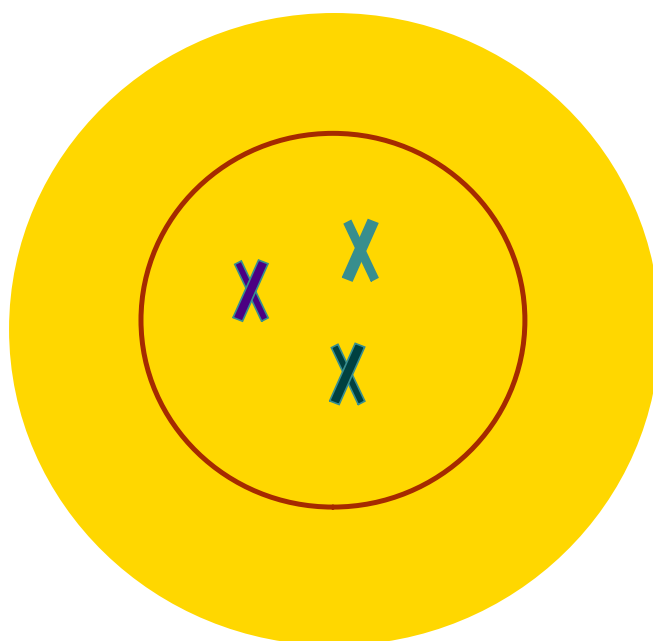
G<sub>2</sub> phase. The  
2<sup>nd</sup> growth  
phase. The cell  
prepares to  
divide.  
Microtubules  
are assembled.

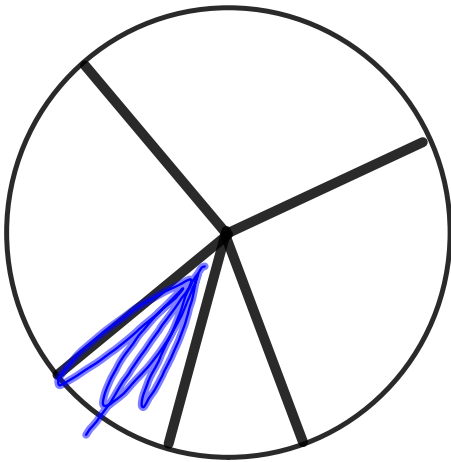






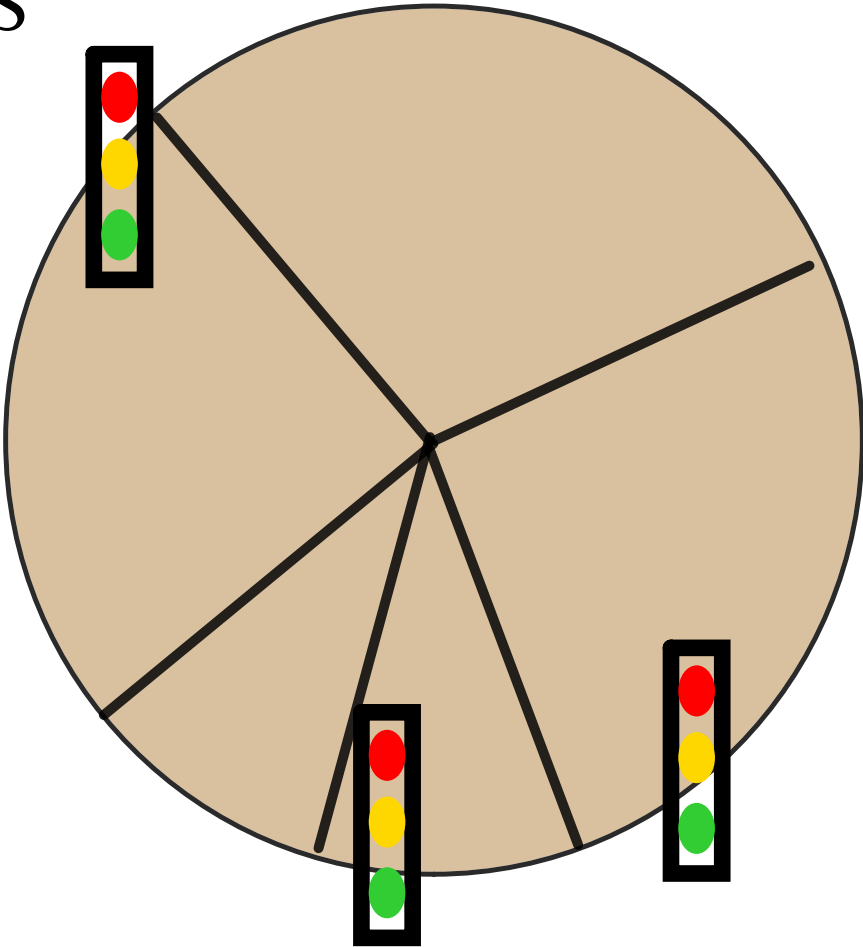
Mitosis- The process of cell division. The cell divides into two nuclei.

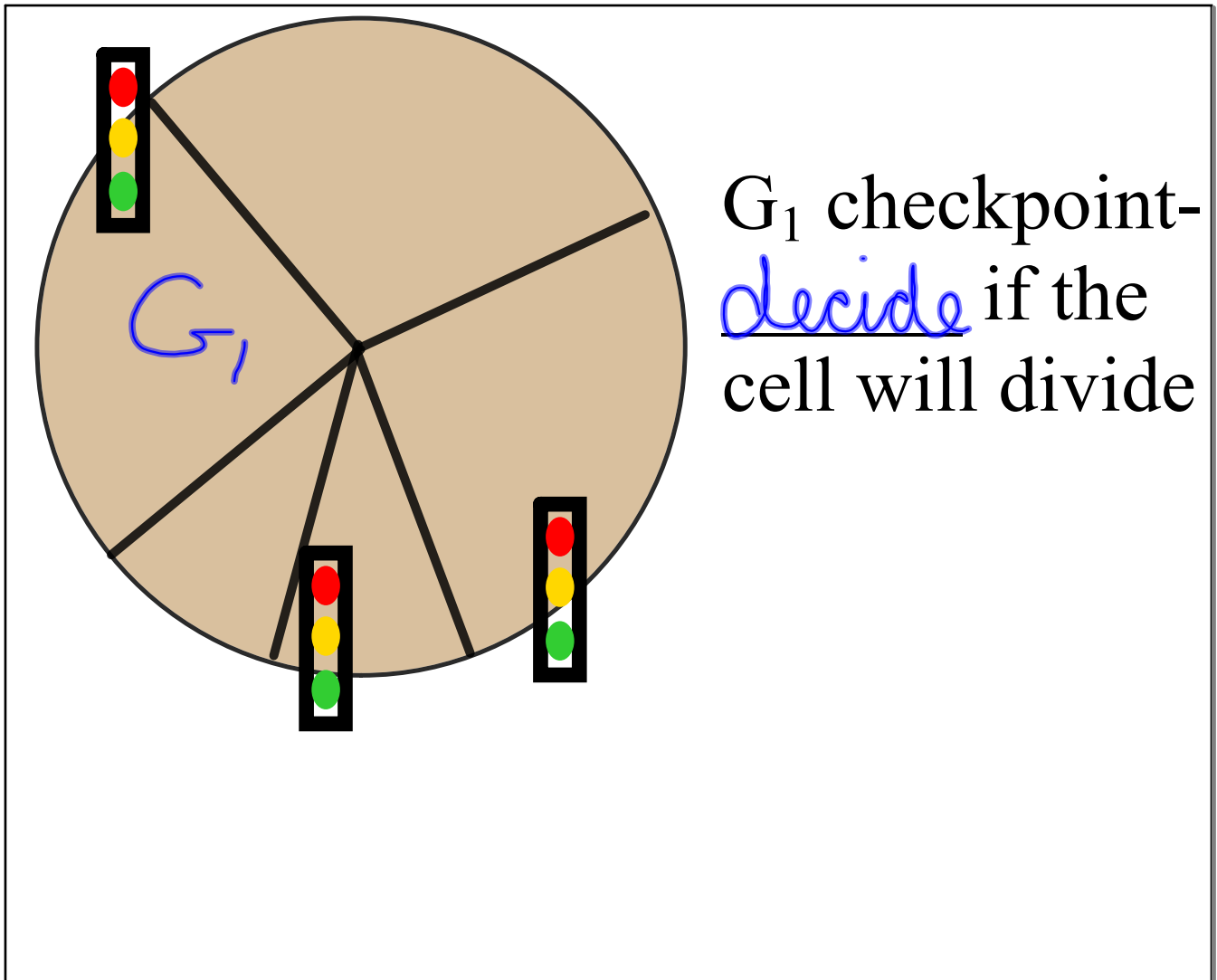


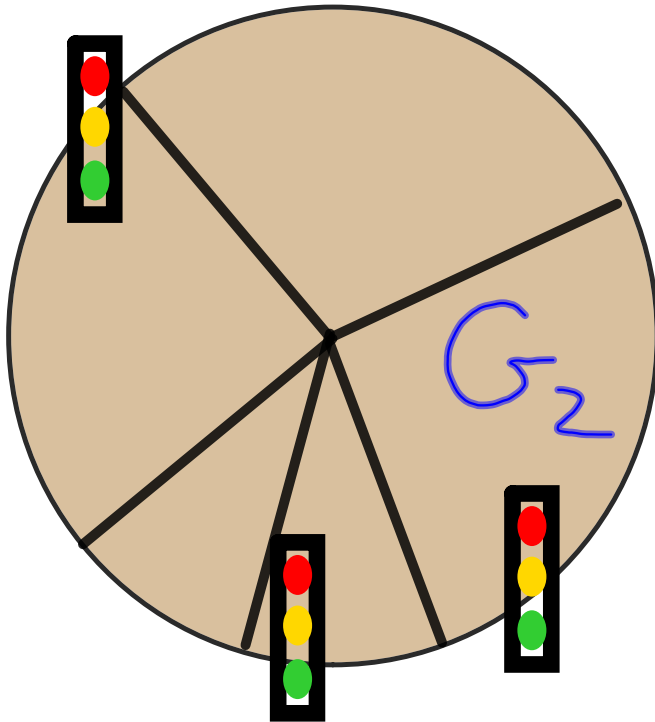


Cytokinesis- the  
Process by  
 which the  
Cytoplasm  
 divides.

STOPS







G<sub>2</sub> checkpoint-  
DNA replication  
is checked at this  
point by DNA  
repair enzymes.  
If this check  
point is passed  
the cell enters  
mitosis.

