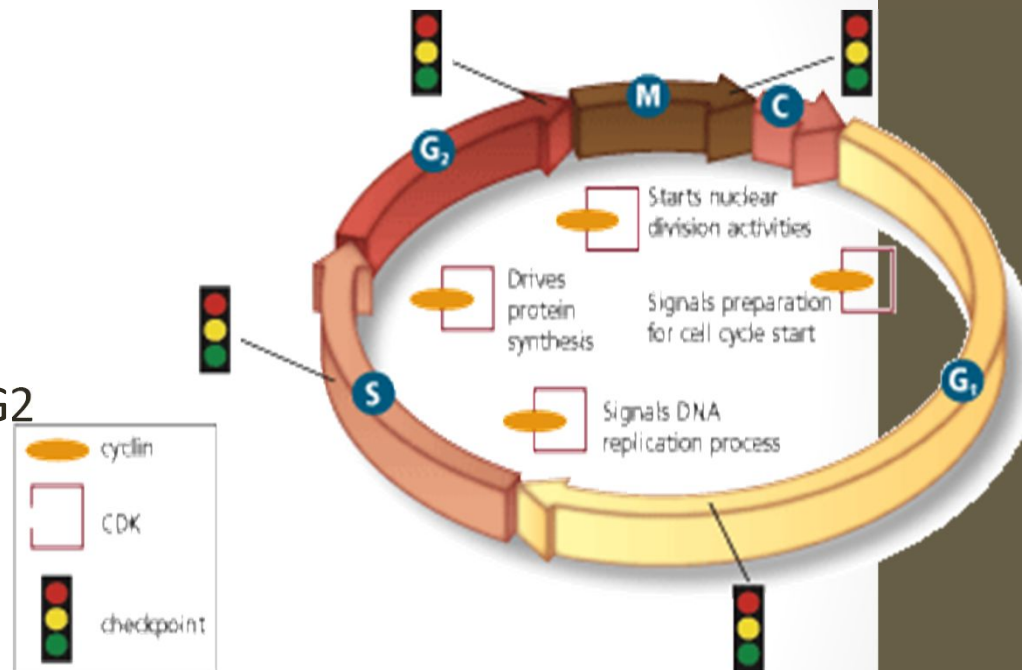


The Cell Cycle

- Once a cell reaches its size limit something has to give.....
 - Stop Growing
 - Divide
- Most cells will divide
- Division helps the cell from becoming too large PLUS is a way to reproduce
- Division is how you grow and heal from injuries!
- Every time through the cell cycle = two cells are produced
 - This means for every ONE cell you get TWO new cells
 - Cells continuously are making new cells

The Cell Cycle

- Three main stages:
 1. Interphase
 - Cell grows
 - Carries out normal functions
 - Copies its DNA
 - Has three sub-stages : G₁, S, G₂
 2. Mitosis
 - Nucleus divides
 - Has four sub-stages
 3. Cytokinesis
 - Cytoplasm divides
 - Creates the final new cell



The Cell Cycle

- Timing of the cell cycle depends on the type of cell
 - Could range from a few minutes to a few years
 - Normal cells take between 12-24 hours

