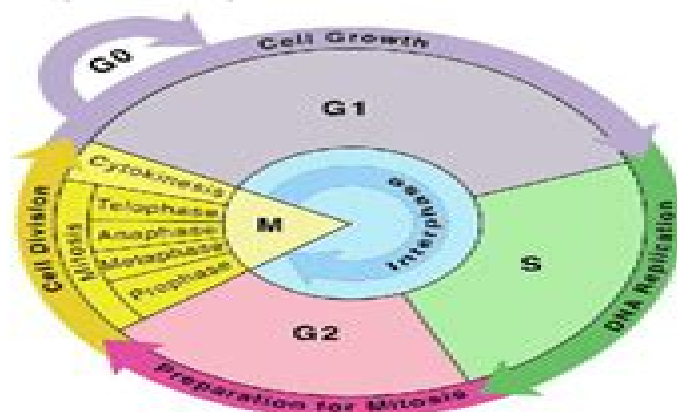


## Why should cells divide?

- Growth and Development (multicellular)
- Cell Size (Low Surface Area: Volume Ratio)
- Repair Injury/replace dead or damaged cells (multicellular)
- Reproduction

## Cell Cycle: Life Cycle of a Cell

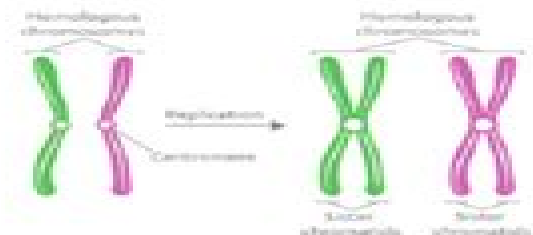


## Interphase: Where the cell spends the majority of its life

- G<sub>1</sub> Phase: Growth
- \*G<sub>0</sub> Phase: Non-Dividing & Differentiated State
  - Basically Exiting the Cell Cycle
  - Can be Temporary!
    - Like liver cells
  - Nerve & Muscle cells NEVER go back
    - Highly specialized cells
- S Phase: DNA Replication
  - Centrosomes/Centrioles also replicate
- G<sub>2</sub> Phase: Rapid Metabolism
  - Get your dummies in a row
  - To be as healthy as possible and be ready for division

## M Phase: Cell Division

- Mitosis: Division of the nucleus (PMAT)
  - Prophase (forward = first) or (p for prep)



# Biology Cell Cycle Study Guide

**Neil A. Campbell**



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