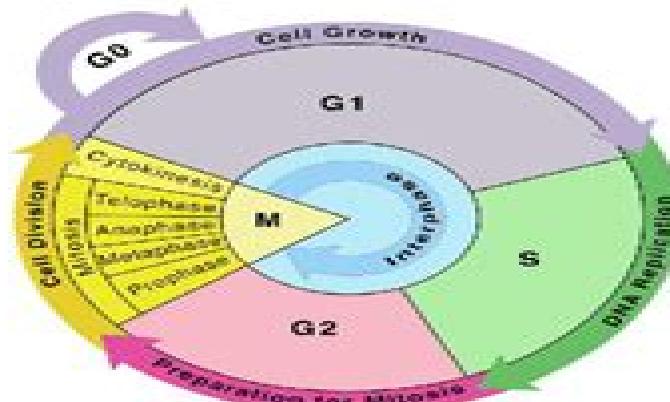


Why should cells divide?

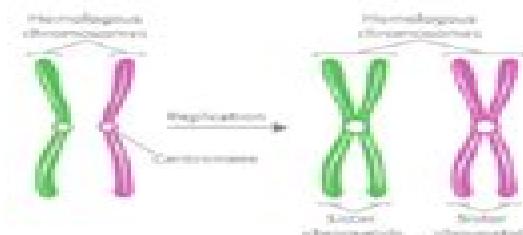
- Growth and Development (multicellular)
- Cell Size (Low Surface Area: Volume Ratio)
- Repair Injury/replace dead or damaged cells (multicellular)
- Reproduction

Cell Cycle: Life Cycle of a Cell



Interphase: Where the cell spends the majority of its life

- G₁ Phase: Growth
- G₀ 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
- G₂ Phase: Rapid Metabolism
 - Get your duckies 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

Biology Cell Cycle Study Guide:

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