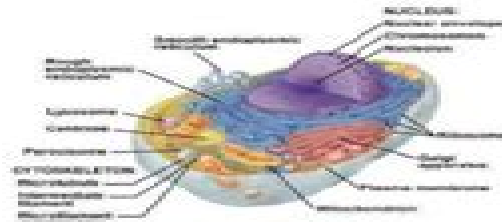


## Unit 2: Cell Biology Study Guide

### *prokaryotic vs eukaryotic cells*

- prokaryotic cells
  - bacteria and archaea
  - have a nucleoid but no nucleus and no true organelles
- eukaryotic cells
  - membrane-bound nucleus and organelles



### *compartmentalization in eukaryotes*

- why are eukaryotic cells so large?
  - compartmentalization: the ability to section off/compartmentalize functions
  - membrane-separated spaces are known as organelles
- why is it important?
  - efficiency: multiple parts of the cell aren't doing the same thing and each part is doing a function they are specialized in
- how did it occur?
  - eukaryotic cells first appeared 2.5 billion years ago
  - internal membranes allow for the compartmentalization of functions
  - endosymbiont theory
    - a prokaryotic cell was engulfed by a larger cell → organelles
    - evidence: mitochondria have their own DNA, and it resembles bacterial DNA; mitochondria undergo binary fission (cell division) to reproduce; mitochondria and chloroplasts have a double membrane indicating one membrane engulfed another
- difference between animal and plant cells
  - lysosomes are not found in plant cells
  - plant cells have cell walls, chloroplasts, and a central vacuole

# Biology Study Guide Completes

**Rachel Sandford**



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