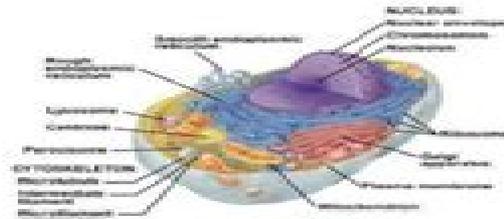
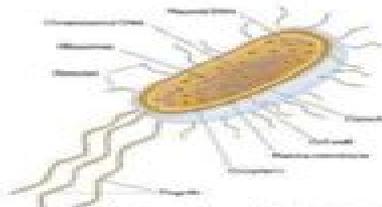


## Unit 2: Cell Biology Study Guide

### *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

# Key Cell Biology Unit Study Guide

**Kathleen Armour**



**Key Cell Biology Unit Study Guide:**

The book delves into Key Cell Biology Unit Study Guide. Key Cell Biology Unit Study Guide is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Key Cell Biology Unit Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Key Cell Biology Unit Study Guide
    - Chapter 2: Essential Elements of Key Cell Biology Unit Study Guide
    - Chapter 3: Key Cell Biology Unit Study Guide in Everyday Life
    - Chapter 4: Key Cell Biology Unit Study Guide in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, the author will delve into the foundational concepts of Key Cell Biology Unit Study Guide. The second chapter will elucidate the essential principles that need to be understood to grasp Key Cell Biology Unit Study Guide in its entirety.
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  6. In chapter 5, the author will draw a conclusion about Key Cell Biology Unit Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.
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