

## AP Bio Unit 2 Flashcards PDF

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What is the basic unit of life?

The cell.

What is the process by which cells obtain energy from glucose?

Cellular respiration.

What is the role of enzymes in biological reactions?

Enzymes act as catalysts to speed up chemical reactions.

What is the difference between prokaryotic and eukaryotic cells?

Prokaryotic cells do not have a nucleus or membrane-bound organelles, while eukaryotic cells do.

What is the function of the plasma membrane?

The plasma membrane regulates what enters and leaves the cell.

What is osmosis?

Osmosis is the diffusion of water across a selectively permeable membrane.

What are the four macromolecules essential for life?

Carbohydrates, lipids, proteins, and nucleic acids.

What is the primary function of ribosomes?

Ribosomes are responsible for protein synthesis.

What is the role of mitochondria in the cell?

The mitochondria are the powerhouse of the cell, producing ATP through cellular respiration.

What is the function of chloroplasts?

Chloroplasts are responsible for photosynthesis in plant cells.