

AP Bio Unit 1 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 ribosome?

Ribosomes are responsible for protein synthesis.

What is the structure that controls the movement of substances in and out of the cell?

The cell membrane.

What is the genetic material found in all living organisms?

DNA (deoxyribonucleic acid).

What is the process by which DNA is copied to make RNA?

Transcription.

What is the primary function of the mitochondria?

The mitochondria are known as the powerhouse of the cell, generating ATP through cellular respiration.

What is the role of chloroplasts in plant cells?

Chloroplasts are responsible for photosynthesis, converting light energy into chemical energy.