

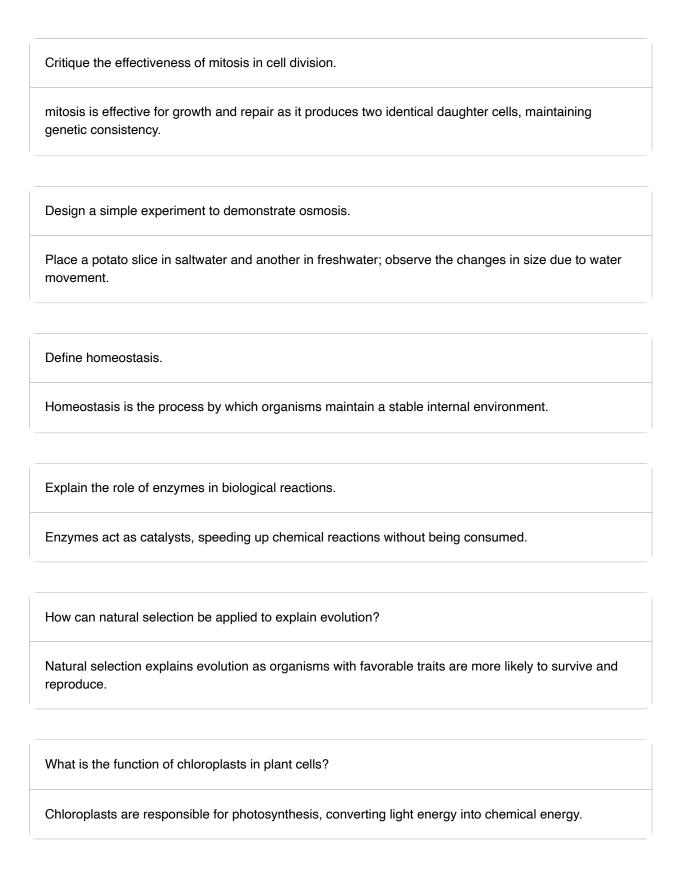
## Flashcards Should Be PDF

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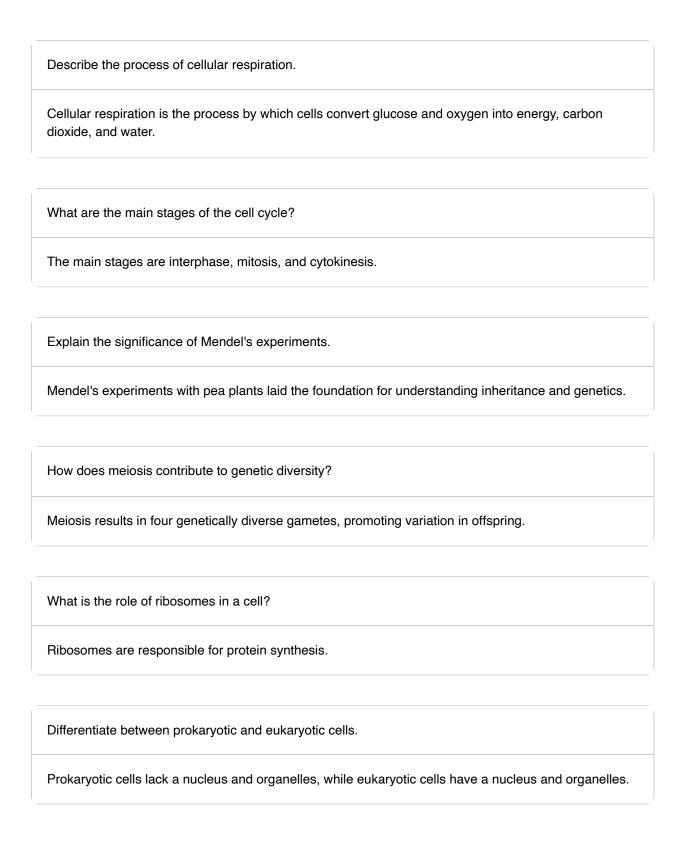
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What is the basic unit of life?
The cell is the basic unit of life.
Why is photosynthesis important for plants?
Photosynthesis allows plants to convert sunlight into chemical energy, producing oxygen and glucose.
How does DNA differ from RNA?
DNA contains the genetic blueprint for life, is double-stranded, and has thymine, while RNA is single-stranded and has uracil.
Provide an example of a eukaryotic cell.
An example of a eukaryotic cell is a human cell.
What are the components of the cell membrane?
The cell membrane is composed of a phospholipid bilayer with embedded proteins.











What is the significance of the double helix structure of DNA?
The double helix structure allows DNA to store genetic information efficiently and replicate accurately.
Explain the process of transcription in protein synthesis.
Transcription is the process of copying a segment of DNA into RNA.
What is an ecosystem?
An ecosystem is a community of living organisms interacting with their physical environment.
How do producers and consumers differ in an ecosystem?
Producers make their own food through photosynthesis, while consumers obtain energy by eating other organisms.
Describe the water cycle.
The water cycle involves evaporation, condensation, precipitation, and collection.
What is the function of mitochondria in cells?
Mitochondria are the powerhouses of the cell, generating ATP through cellular respiration.

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Explain the concept of ecological succession.
Ecological succession is the process of change in the species structure of an ecological community over time.
How does the structure of a protein relate to its function?
The specific shape of a protein determines its function, as it allows the protein to interact with other molecules.