



CELLULAR RESPIRATION

Cellular Respiration = plants & animals produce **ATP** in the cells


- Reactions of Cellular Respiration occur in the **mitochondria**.
- Oxygen is **essential** for **aerobic** cellular respiration in animals and plants.



Reactants: $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{ATP}$



- Respiration** occurs in **mitochondria** and **plants** in **chloroplasts**, releasing **energy** from **glucose**.
- The **respiration** process **breaks down** glucose into **pyruvate**.



Cellular Respiration

- Reactions that **break down** glucose to release **energy**.
- Two **stages** of **cellular respiration**: the **glycolysis** pathway (occurs in the **cytoplasm**) and the **respiration** pathway (occurs in the **mitochondria**).

Cellular Respiration

- Two **stages** of **cellular respiration**.
- The **respiration** pathway is **aerobic**, meaning it **requires** **oxygen**.
- The **glycolysis** pathway is **anaerobic**, meaning it **does not** **require** **oxygen**.



- Respiration** occurs in **mitochondria** and **plants** in **chloroplasts**.
- The **respiration** process **breaks down** glucose into **pyruvate**.



Cellular Respiration

Reactants	Products
Glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) + Oxygen (O_2)	Carbon Dioxide (CO_2) + Water (H_2O) + Energy (ATP)

Cellular Respiration

- Reactions that **break down** glucose to release **energy**.
- Two **stages** of **cellular respiration**: the **glycolysis** pathway (occurs in the **cytoplasm**) and the **respiration** pathway (occurs in the **mitochondria**).

Cellular Respiration Pathway

Reactants: $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{ATP}$

Products: $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{ATP}$

Reactants Involved in Cellular Respiration

- Glucose ($\text{C}_6\text{H}_{12}\text{O}_6$)
- Oxygen (O_2)



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Cellular Respiration

- Reactions that **break down** glucose to release **energy**.
- Two **stages** of **cellular respiration**: the **glycolysis** pathway (occurs in the **cytoplasm**) and the **respiration** pathway (occurs in the **mitochondria**).

STUDY GUIDE

Cellular Respiration Study Guide And Test Review

Huangqi Zhang



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