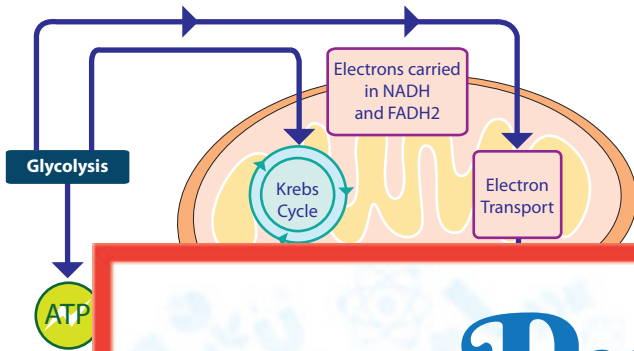


# How Cells Make Energy

Did you know that the cells inside your body are like tiny power plants? They use a special process called cellular respiration to make energy.



Imagine a cell as a tiny factory. The factory

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### The Krebs Cycle:

Next, pyruvate moves into the mitochondria, and the Krebs cycle takes place. It breaks down pyruvate further, releasing carbon dioxide and more energy. Special molecules called NADH (nicotinamide adenine dinucleotide) and FADH<sub>2</sub> (flavin adenine dinucleotide) are created to carry energy.

# How Cells Make Energy

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## The Electron Transport Chain:

The last step is the electron transport chain. High-energy electrons from NADH and FADH<sub>2</sub> move through a series of "stations" inside the mitochondria. As they do, they release energy and create a small electrical charge. This charge helps make more energy in the form of ATP (adenosine triphosphate).

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- 1) Where does aerobic respiration take place in the cell?
- a) in the cytoplasm
  - b) in the cell membrane
  - c) in the mitochondria

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- 3) What is ATP in cellular respiration?
- a) a type of gas
  - b) a waste product
  - c) a cell organelle
  - d) a special molecule that stores energy

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- 4) What is the main function of cellular respiration in the context of a cell's energy needs?

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5)

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