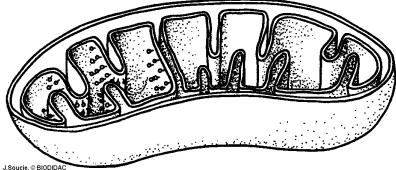


3.7 Cellular Respiration

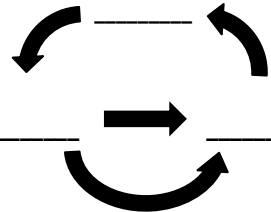
Location Location Location:



J. Smith, © BIOZONE

General Reaction:

_____ + _____ → _____ + _____ + _____



Cellular Respiration Can Be Divided into Three Sub-Reactions:

Glycolysis Reaction

Initial breakdown of _____

Glucose is split into _____

molecules of _____

Occurs in cell's _____

Glucose → 2 Pyruvate

Kreb's Cycle Reaction:

Pyruvate moves into the _____


Pyruvate is broken down to _____

through many chemical reactions in the _____

Energy from _____ bonds

transferred to _____

Pyruvate → CO₂ + High-Energy Electrons



Electron Transport Chain:

_____ move

through a series of reactions called the

Electron Transport Chain.

Reactions release _____ and

O₂ receives electrons; energy is

transferred _____ from

_____ to ADP + P to make

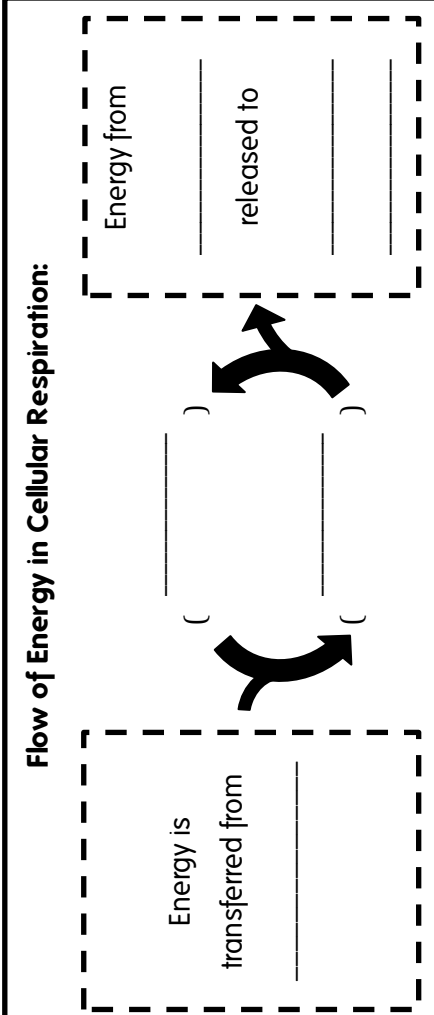
High-Energy Electrons + O₂ + ADP + P → ATP

Flow of Energy in Cellular Respiration:

Energy from _____ released to _____

() ()

Energy is transferred from _____



Limiting Factors of Cellular Respiration:

A limiting factor is any factor that will _____ the rate of cellular respiration.

1. _____
2. _____