

Photosynthesis-Cellular Respiration MASTER Concept Map

Photosynthesis

Chloroplast
Stroma
Thylakoid
Light Dependent Reaction
Light
H₂O
ADP/ATP
O₂
Electron carriers
Light Independent Reaction
ADP/ATP
CO₂
Glucose
Electron carriers

Aerobic Respiration

Mitochondrion
Matrix
Intermembrane Space
Pyruvate
Acetyl Co-A
Kreb's Cycle
CO₂
ADP/ATP
Electron carriers
Electron Transport Chain
H₂O
O₂
Electron carriers
32 + ATP

Anaerobic Respiration

Cytoplasm
Glycolysis
Glucose
ADP/ATP
Pyruvate
Electron Carriers
Lactic Acid Fermentation
Lactic Acid
Electron Carriers
Alcoholic Fermentation
CO₂
Ethanol
Electron Carriers

The chemical equation for photosynthesis should be at the top of one half. The chemical equation for cellular respiration should be at the top of the other half. You need to show the electron carriers "recycling" within each process. But not linked between the two halves

The following must be linked between the two halves: O₂ C₆H₁₂O₆ H₂O CO₂

Suggestion..... using COLORS for certain substances will help your organization!!

Especially those FOUR that should be linked from one half to the other!

Examples.... ATP/ADP is always red, Electron carriers are always....., Oxygen is always.....