

PHOTOSYNTHESIS

CELLULAR RESPIRATION

Carbon Dioxide
+ (CO₂)
Water (H₂O)

Green Plants,
Animals, Fungi,
Algae, Bacteria -
(All life)

Carbon Dioxide
+ (CO₂)
Water (H₂O)

This process
takes place in
the chloroplast.

Glucose (C₆H₁₂O₆)
+
Oxygen (O₂)

This process
takes place -
mainly in the
mitochondrion

Glucose (C₆H₁₂O₆)
+
OXYGEN (O₂)

As the bonds in
glucose are broken,
energy is released.

Green Plants,
Algae
(& Cyanobacteria)

ORGANISM

Energy from
the Sun is
trapped in glucose.

ORGANELLE

ENERGY

REACTANTS

PRODUCTS

Both processes are energy reactions.

Almost all organisms depend on both processes to live.

Equations for both processes include the same compounds.

OPEN COMPARE AND CONTRAST

HOW ALIKE?

HOW DIFFERENT?

WITH REGARD TO

PATTERNS OF SIGNIFICANT SIMILARITIES AND DIFFERENCES:

CONCLUSION OR INTERPRETATION: