

# Photosynthesis and Cellular Respiration

photosynthesis

## Why is it important?

Plants convert sunlight into chemical energy. This chemical energy can be used by nearly every living thing.

Cellular respiration

## ATP- Adenosine Triphosphate

When cells break down food molecules, some of the energy is released as heat. Cells use much of the remaining energy to make ATP

ATP

### Photosynthesis

### ATP

### Cell Respiration

ATP is like money, it can be earned or spent.



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General Biology Ch. 9

Electron transport chain

### Photosynthesis

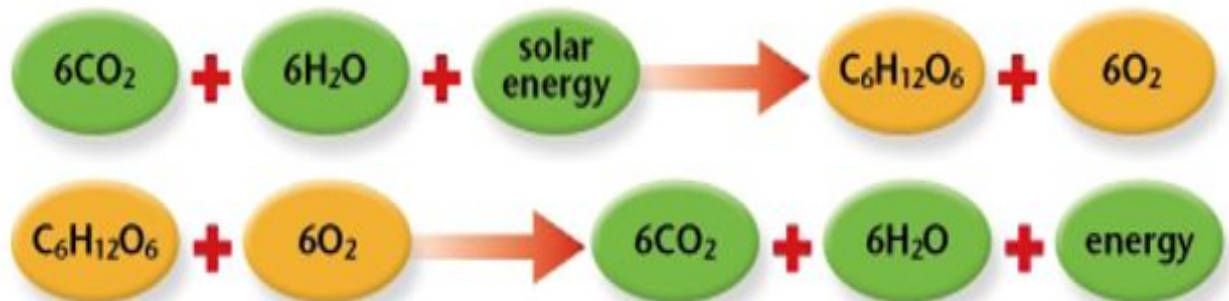
- Captures energy
- Plants and algae
- chloroplast
- chlorophyll
- Produces sugar, ATP and NADPH

### Cell Respiration

- Breaking down sugar
- Turns sugar into ATP
- Many steps

chlorophyll

## Photosynthesis formula vs. Cellular Respiration formula



glycolysis

Krebs cycle

