Compare Photosynthesis and Cellular Respiration

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Consider	Photosynthesis	Cellular Respiration
The organisms that carry on the process	Plants	All Living Cells
The reactants	CO2 + H20	102 + C6H1206
The products	C6H12O6 + O2 K	1 Co, + H,0
When during a 24 hour cycle the process occurs?	w/ Sunlight	Always
The energy conversion that occurs	light -> molecular	(Glucose) (ATP) molecular -> molecular
The types of cells that perform each process.	Plants	All Living Cells
The organelles involved.	Chloroplasts	Mitochondria (+ cytoplas
The chemical equations.	see below	See below
Changes inorganic materials to organic materials. (Yes / No)	CO2+H2O -> C6H12O6	No
Changes organic materials to inorganic materials. (Yes / No)	No	Cutizon -> CO2 + H20
Food is broken down.	No	Ves
Food is synthesized.	Ves	No
Enzymes are involved.	Ves	Ves
What needs to be present for it to occur?	CO2 H20 Light	C6H12O6 O2
Energy is stored or released. (Stored / Released)	Stored	Released
In what form does energy enter the process?	Light	Molecular (Bonds of glucose)
In what form does energy leave the process?	Molecular (Glucose)	molecular (ATP)
Occurs in autotrophs.	Ves	Ves
Occurs in heterotrophs.	No	Ves
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Photosynthesis:

Cell Respiration:

$$C_0 + C_0 + C_0 - C_0 + C_0$$